

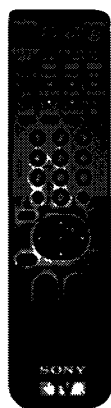
# SERVICE MANUAL

# AA-2D CHASSIS

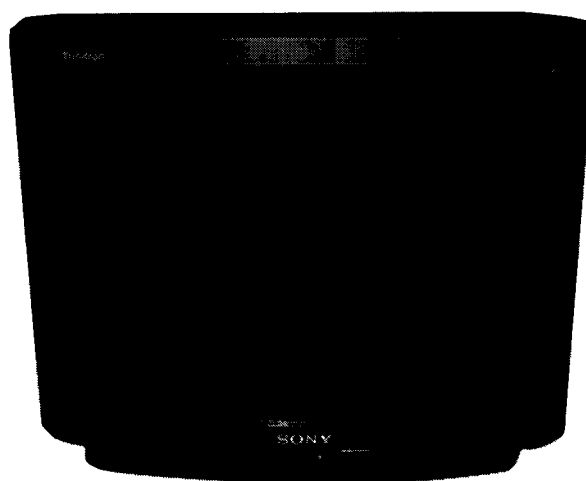
<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<b>KV-27V22</b>	RM-Y135A	US	SCC-K96R-A
<b>KV-27V22</b>	RM-Y135A	CND	SCC-K97N-A
<b>KV-29V22T</b>	RM-Y135A	TAIWAN	SCC-N28C-A
<b>KV-29V36K</b>	RM-Y149A	KOREAN	SCC-N37B-A
<b>KV-29V76T</b>	RM-Y137A	TAIWAN	SCC-N28D-A
<b>KV-34V36K</b>	RM-Y149A	KOREAN	SCC-N37C-A
<b>KV-37V36T</b>	RM-Y137A	TAIWAN	SCC-N28F-A

Note: Adjustment Manual for this model is published separately

	Adjustment Manual
Part No.	9-965-829-01



RM-Y137A



KV-37V36T



TRINITRON® COLOR TV  
**SONY®**

## SAFETY CHECK-OUT (US Model only)

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

1. Check the area of your repair for unsoldered or poorly-soldered connections. Check the entire board surface for solder splashes and bridges.
2. Check the interboard wiring to ensure that no wires are "pinched" or contact high-wattage resistors.
3. Check that all control knobs, shields, covers, ground straps, and mounting hardware have been replaced. Be absolutely certain that you have replaced all the insulators.
4. Look for unauthorized replacement parts, particularly transistors, that were installed during a previous repair. Point them out to the customer and recommend their replacement.
5. Look for parts which, though functioning, show obvious signs of deterioration. Point them out to the customer and recommend their replacement.
6. Check the line cords for cracks and abrasion. Recommend the replacement of any such line cord to the customer.
7. Check the B+ and HV to see if they are specified values. Make sure your instruments are accurate; be suspicious of your HV meter if sets always have low HV.
8. Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC Leakage. Check leakage as described below.

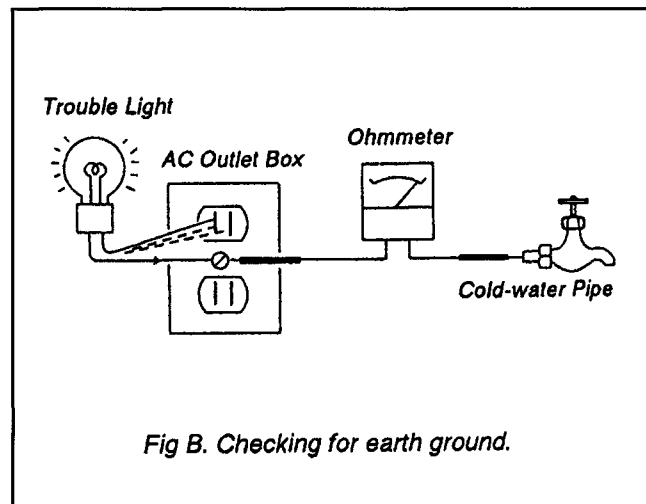
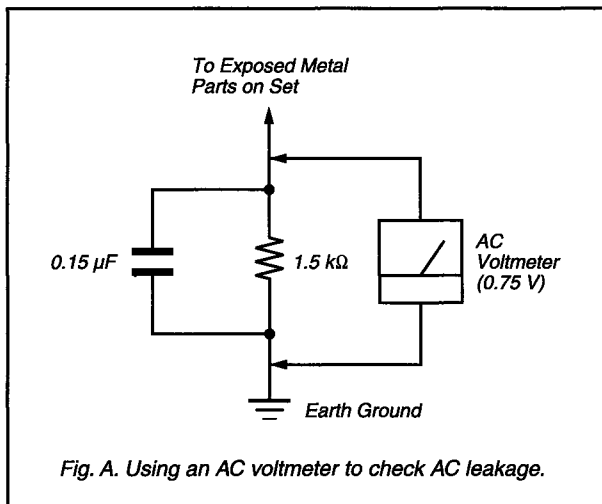
### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampere). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instructions.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low voltage scale. The Simpson's 250 and Sanwa SH-63Trd are examples of passive VOMs that are suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

### HOW TO FIND A GOOD EARTH GROUND

A cold-water pipe is guaranteed earth ground; the cover-plate retaining screw on most AC outlet boxes is also at earth ground. If the retaining screw is to be used as your earth-ground, verify that it is at ground by measuring the resistance between it and a cold-water pipe with an ohmmeter. The reading should be zero ohms. If a cold-water pipe is not accessible, connect a 60-100 watts trouble light (not a neon lamp) between the hot side of the receptacle and the retaining screw. Try both slots, if necessary, to locate the hot side of the line, the lamp should light at normal brilliance if the screw is at ground potential. (See Fig. B)



# TABLE OF CONTENTS

<u>Section</u>	<u>Title</u>	<u>Page</u>	<u>Section</u>	<u>Title</u>	<u>Page</u>
<b>1. GENERAL</b>					
	Welcome!	5	2-4.	Control Switch Removal (KV-29V36K/29V76T/34V36K/37V36T)	13
	Connecting and Installing the TV	5	2-5-1.	Picture Tube Removal (KV-27V22/29V22T/29V36K/29V76T)	14
	Connector Types	5	2-5-2.	Picture Tube Removal (KV-34V36K)	14
	Making Connections	5	2-5-3.	Picture Tube Removal (KV-37V36T)	15
	Installing the glass door	7	<b>3. SAFETY RELATED ADJUSTMENTS</b>		16
	Adjusting the shelf	7			
	Basic Set up	7	<b>4. DIAGRAMS</b>		
	Inserting Batteries	7	4-1.	Block Diagram	19
	Using the remote control/Select buttons	7	4-2.	Circuit Boards Location	27
	Adjusting slides	7	4-3.	Printed Wiring Boards and Schematic Diagrams	27
	On Line Help/Instructions	7		• P Board (except KV-27V22/29V22T)	28
	Using your New TV	8		• SC Board (except KV-27V22/29V22T)	31
	Setting up the TV automatically	8		• A Board	32
	Watching the TV	8		• UV Board	41
	Watching two programs at one time - PIP	8		• WA Board (KV-37V36T)	46
	Adjusting your SET UP (menus)	9		• HV Board	49
	Learning menu selection	9		• WB Board (KV-29V36K/29V76T/34V36K)	52
	Using the VIDEO menu	9		• C Board	53
	Using the AUDIO menu	9		• G Board	55
	Using the TIMER menu	10		• AV Board (except KV-27V22/29V22T)	57
	Using the SET UP menu	10		• HS Board (KV-34V36K/37V36T)	57
	Operating Video Equipment	10		• K Board (KV-29V36K/29V76T/34V36K)	59
	Setting the manufacturer's code	10	4-4.	Semiconductors	61
	VCR manufacturer code numbers	10	<b>5. EXPLODED VIEWS</b>		
	MDP manufacturer code numbers	10	5-1.	Chassis (KV-27V22/29V22T/29V36K/29V76T/34V36K)	63
	Operating a cable box DBS receiver	11	5-2.	Picture Tube (KV-27V22/29V22T/29V36K/29V76T)	64
	Troubleshooting	11	5-3.	Picture Tube (KV-34V36K)	65
			5-4.	Chassis (KV-37V36T)	66
<b>2. DISASSEMBLY</b>			5-5.	Picture Tube (KV-37V36T)	67
2-1-1.	Rear Cover and Speaker Removal (except KV-37V36T)	12	<b>6. ELECTRICAL PARTS LIST</b>		68
2-1-2.	Rear Cover and Speaker Removal (KV-37V36T)	12			
2-2.	Chassis Assy Removal	13			
2-3.	Service Position	13			

## CAUTION!

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

## ATTENTION

APRES AVOIR DECONNECTE LE CAP DE L'ANODE, COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

## WARNING!!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.  
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

## ATTENTION!!

AFIN D'EVITER TOUT RESQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE. LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

## SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  $\Delta$  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL FOR SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

## ATTENTION AUX COMPOSANTS RELATIFS A LA SECURITE!!

LES COMPOSANTS IDENTIFIES PAR UNE TRAME ET PAR UNE MARQUE  $\Delta$  SUR LES SCHEMAS DE PRINCIPE, LES VUES EXPLOSEES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMERO DE PIECE EST INDIQUE DANS LE PRESENT MANUEL OU DANS DES SUPPLEMENTS PUBLIES PAR SONY. LES REGLAGES DE CIRCUIT DONT L'IMPORTANCE EST CRITIQUE POUR LA SECURITE DU FONCTIONNEMENT SONT IDENTIFIES DANS LE PRESENT MANUEL. SUIVRE CES PROCEDURES LORS DE CHAQUE REMPLACEMENT DE COMPOSANTS CRITIQUES, OU LORSQU'UN MAUVAIS FONCTIONNEMENT SUSPECTE.

The instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers shown reflect those of the Operating Instruction Manual

## Using This Manual

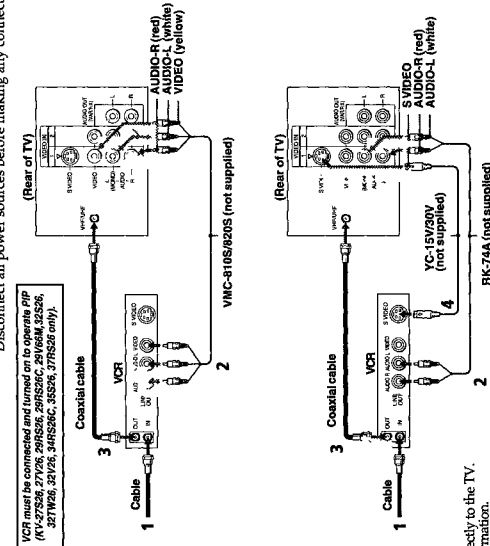
- Do not install the TV in a hot or humid place, or in a place subject to excessive dust or mechanical vibration.

**- 5 -**

the remote control.

you should consider using the CHANNEL FIX feature discussed on page 22

## 2





## Connecting and Installing the TV (continued)

### Connecting a DBS (Direct Broadcast Satellite) receiver

For the highest picture quality, use S VIDEO instead of the yellow AUDIO/VIDEO cable. See your DBS manual for more information.

- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF-IN on your TV.
- 3 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your TV.

### Connecting a DBS (Direct Broadcast Satellite) receiver and a VCR

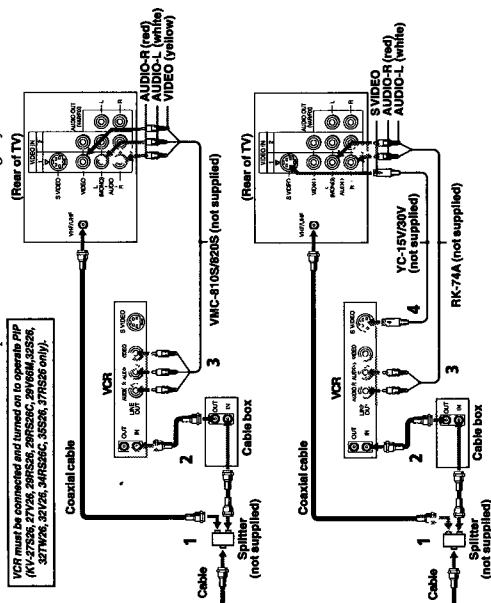
- 1 Connect the cable from your satellite antenna to your DBS receiver.
- 2 Attach the coaxial connector from your cable or antenna to VHF/UHF-IN on your VCR.
- 3 Using a coaxial connector, connect VHF/UHF-OUT on your VCR to VHF/UHF on your TV.
- 4 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your DBS receiver to AUDIO and VIDEO IN on your VCR.
- 5 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your VCR to AUDIO and VIDEO IN on your TV.

**Note:**

- To view input from the DBS or VCR, select VIDEO 1 by pressing TV/VIDEO on the remote control.

6

Disconnect all power sources before making any connections.



5

## Connecting and Installing the TV (continued)

Disconnect all power sources before making any connections.

### Connecting two VCRs for tape editing using MONITOR OUT

- KV-27V26, 27V28, 29V36, 29V36M, 29V36M, 32V26, 32V28, 34V36, 35V36, 35V76, 37V36M only
- MONITOR OUT gives you the ability to use a second VCR to record a program being played by the primary VCR or to perform tape editing and dubbing.

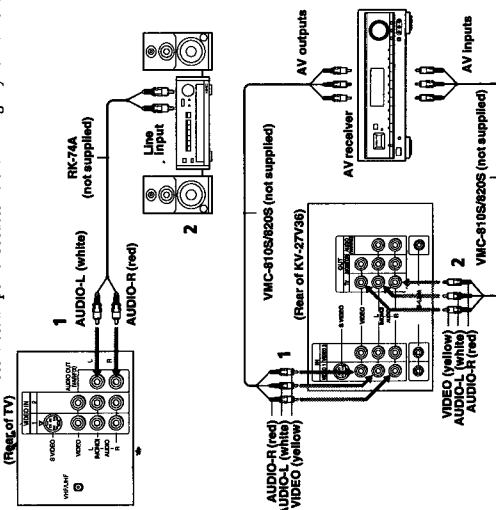
- 1 Connect the VCR intended for playback using the setup instructions on page 4 of this manual.
- 2 Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO IN on your VCR intended for recording to MONITOR AUDIO and VIDEO OUT on your TV.

### Notes:

- Do not change the input signal while editing through MONITOR OUT.
- When connecting a single VCR to the TV; if VCR LINE OUT is connected to TV VIDEO IN, do not connect the TV MONITOR OUT jacks to the VCR LINE INPUT (see right). Doing so will cause program interference and other viewing problems.

8

Disconnect all power sources before making any connections.



7

### Using the S-Link function

- KV-27V26, 27V36, 29V36C, 29V68M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only

S-Link is a Sony innovation designed to make you to automatically switch the TV input mode to Video when you press PLAY on your S-Link remote control. You can move the VCR, VHS, and TV off at the same time with the SYSTEM OFF button.

- 1 Connect your VCR using the setup instructions on page 4 of this manual.
- 2 Using an S-Link connector, connect the S-Link terminals on the VCR to the TV. The two ends are seated firmly and that the TV S-Link connector is in the same row as the AUDIO/VIDEO connectors.

### Connecting a camcorder

- KV-27V26, 27V36, 29V36C, 29V68M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V76, 37V36M only

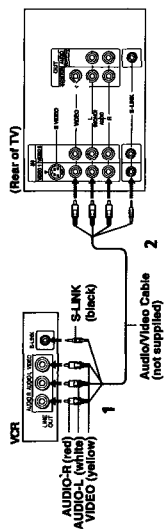
This connection is convenient for viewing a picture directly from your camcorder.

Using AUDIO/VIDEO connectors, connect AUDIO and VIDEO OUT on your camcorder to AUDIO and VIDEO IN on the front panel of your TV (Yellow-VIDEO, White-AUDIO Left, Red-AUDIO Right).

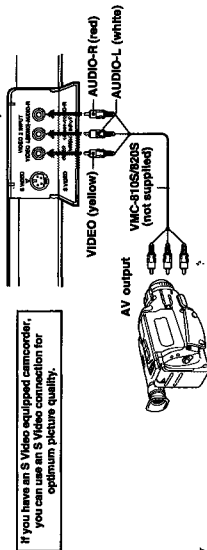
### Note:

- If you are connecting a monaural camcorder, connect only the single audio output to the left input on your TV.

Disconnect all power sources before making any connections.



(Front of KV-32V36, 34V36C, 35V36, 35V76, 37V36M)



If you have an S Video equipped camcorder, you can use an S Video connection for optimum picture quality.

9

## Connecting and Installing the TV (continued)

### KV-32V26 and KV-35V76 only

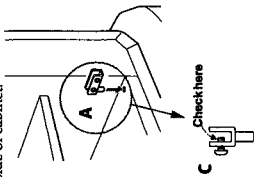
Follow these instructions to install the glass door and adjust the shelf.

### Note:

- Confirm that all parts are included before beginning assembly. If any parts are missing, contact your dealer.

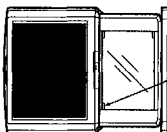
### Installing the glass door

- 1 Check that the projection of the screw through the bottom hinge **A** does not interfere with the proper installation of the hinge to the glass door, and then insert the hinge into the hole located at the bottom right side of cabinet.



### Parts List

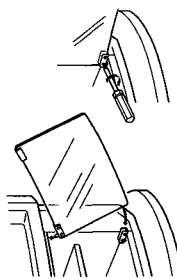
<b>A</b>	Bottom hinge	1
<b>B</b>	Top hinge	1
<b>C</b>	Screw 4x4	4
<b>D</b>	Plate pad	1
<b>E</b>	Plate	1
<b>F</b>	Metal pin	4



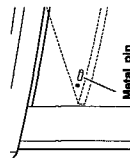
10

### Adjusting the shelf

- 1 Press the upper part of the temporary shelf supports and remove the shelf.



- 2 Insert the metal pin shelf supports (2 each side).



### Inserting batteries

Insert two size AA (R6) batteries (supplied) by matching the + and - on the batteries to the diagram inside the battery compartment.

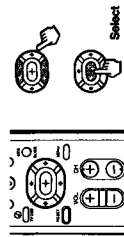


### Notes:

- Remove the batteries to avoid damage from possible battery leakage whenever you anticipate that the remote control will not be used for an extended period.
- Handle the remote control with care. Avoid dropping it, getting it wet, or placing it in direct sunlight, near a heater, or where the humidity is high.
- Your remote control can be programmed to operate most video equipment. See page 24.

11

### Using the remote control Select buttons



The supplied remote control has select buttons which allow for movement of the on-screen selector in four directions. Pressing on the edge of the select buttons will cause the selector to move in the selected direction. Pressing the center of the select buttons "Select" will activate the selected item.

### Adjusting sliders

When menu items present a slider (— or —), use the select buttons (← or →) to adjust the setting.

### On Line Help/Instructions

Several menu windows will provide prompts and instructions to assist you in navigating through the different functions. When presented, use these to supplement the instructions in this manual.

## Basic Set up

## Using your New TV

### Setting up the TV automatically

The EASY SETUP GUIDE feature will allow you to set the on-screen language and set all receivable channels. The EASY SETUP GUIDE screen will appear every time you turn on the TV until you perform AUTO PROGRAM.

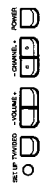
The EASY SETUP GUIDE feature does not apply for installations that use a cable box for all channel selection.

To set up the TV manually, refer to "Using the SET UP menu" on page 22.

#### Tips

- Perform this function during the day with the antenna and/or cable properly connected to ensure that all available channels will be downloaded and receivable.
- After using EASY SETUP GUIDE you will still have the option of adjusting any of the system settings, like scanning channels, through the SET UP menu (page 22).
- The TV must be set to TV input to execute AUTO PROGRAM. Press ANT until the channel number appears.
- If your cable or antenna is connected to AUX, then press ANT until "AUX" appears next to the channel number (KV-27V26, 27V36, 29V36C, 29V76M, 32V36, 32V36C, 34V36C, 35V36, 35V36C, 37V36, 37V36M only).

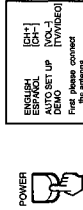
Using the buttons on the front of the TV:



For KV-27V36, 29V36C, 29V76M, 32V36, 34V36C, 35V36, 35V36C, and 37V36M, the control buttons are located on the top of the TV.

#### 1 Press POWER to turn on the TV.

The EASY SETUP GUIDE screen appears.



#### 2 (Except Canadian models)

Press CHANNEL + to select English screens or CHANNEL - to select Spanish screens.



#### 3 Press VOLUME - to continue or TV/VIDEO for a DEMO of functions and menus.

## Using your New TV (continued)

### Watching the TV

All of the TV features can be accessed via the remote control. The following chart will explain the function of the buttons found on your remote control.



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

TV (FUNCTION)	Activates the remote control for use with the TV.
TV POWER	Turns the TV on and off. If "VIDEO" appears on the screen, press TV/VIDEO or ANT so that a channel number appears.
	Use for direct channel selection. Press 0-9 to select a channel (for example, to select channel 10, press 1 and 0). The channel will change after 2 seconds, or you can press ENTER for immediate selection.
CH +/-	Press to scan through the channels (+ up or - down).
VOL +/-	Press to adjust the volume (+ up or - down).
JUMP	Press to alternate or jump back and forth between two channels. You can only jump between the last two channels that have been selected with the CH keys.
MUTING	Press to mute the sound ("MUTING" will appear on the screen). Press again or press VOL + to restore sound.
FREEZE	Press to freeze the window picture while in PIP mode. If you are not in PIP mode, pressing FREEZE will cause the main picture to freeze into a window picture. Great for copying down phone numbers, addresses, recipes, etc.

14

## Using your New TV (continued)

### Watching two programs at one time — PIP

The Picture-in-Picture (PIP) feature allows you to view two channels simultaneously, one in the full size "main" picture and one in a smaller "window" picture. This means that two separate tuners must be available to provide the two signals.

Certain models (KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, 37RS26 only) are equipped with a single tuner. This simply means that a VCR must be connected and turned on for PIP to operate.

#### Tip

To ensure a correct single tuner PIP connection (KV-27S26, 27V26, 29RS26, 29RS26C, 29V66M, 32S26, 32TW26, 34RS26C, 35S26, 37RS26 only), make sure the following list of sample connections is complete before using PIP:

- A cable or antenna is connected to the VCR.
- The VCR is connected to your TV.
- The VCR is turned on.

(for detailed connection information, see page 3-5)

#### Note:

- You must press TV (FUNCTION) before you can control PIP with the yellow labeled buttons.

15



Some programs are broadcast with Caption Vision. To display Caption Vision, select CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, or TEXT4 from the menu, then press DISPLAY until Caption Vision is displayed.

CC1, CC2, CC3, or CC4 shows you a caption, that is, a printed version of the dialogue or sound effects of a program. (The mode should be set to CC1 for most programs) TEXT1, TEXT2, TEXT3, or TEXT4 shows you text, that is, information presented using either half or the whole screen. It is not usually related to the program.

#### Notes:

- Poor reception of TV programs can cause errors in Caption Vision and XDS. Captions may appear with a white box or other errors instead of intended text.
- XDS, Caption Vision, and the status display cannot be used at the same time.

**SLEEP** Press repeatedly until the TV displays the approximate time in minutes (30, 60, or 90) that you want the TV to remain on before shutting off automatically. Cancel by pressing until "SLEEP OFF" appears.

**DISPLAY** Press repeatedly to step through available displays: Channel number, current time, channel caption (if set), and MTS mode (if SAP is selected) are displayed. SAP indication disappears after three seconds.

**XDS** XDS (Extended Data Service) shows a network name, program name, program type, program length, call letters, and time of the show if the broadcaster offers this service.

**Caption Vision** will be displayed on the screen if the broadcaster offers this service. (see right)

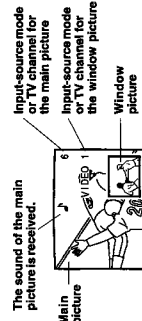
To cancel the display, press DISPLAY repeatedly until "DISPLAY OFF" appears. "DISPLAY OFF" disappears after three seconds.

Press repeatedly to step through available video inputs: TV, Video 1, Video 2, Video 3, Video 4, Video 5, Video 6, Video 7, Video 8, Video 9, Video 10, Video 11, Video 12, Video 13, Video 14, Video 15, Video 16, Video 17, Video 18, Video 19, Video 20, Video 21, Video 22, Video 23, Video 24, Video 25, Video 26, Video 27, Video 28, Video 29, Video 30, Video 31, Video 32, Video 33, Video 34, Video 35, Video 36, Video 37, Video 38, Video 39, Video 40, Video 41, Video 42, Video 43, Video 44, Video 45, Video 46, Video 47, Video 48, Video 49, Video 50, Video 51, Video 52, Video 53, Video 54, Video 55, Video 56, Video 57, Video 58, Video 59, Video 60, Video 61, Video 62, Video 63, Video 64, Video 65, Video 66, Video 67, Video 68, Video 69, Video 70, Video 71, Video 72, Video 73, Video 74, Video 75, Video 76, Video 77, Video 78, Video 79, Video 80, Video 81, Video 82, Video 83, Video 84, Video 85, Video 86, Video 87, Video 88, Video 89, Video 90, Video 91, Video 92, Video 93, Video 94, Video 95, Video 96, Video 97, Video 98, Video 99, Video 100.

**ANT** Press to change the VIDEO/ANT input to the AUX input (KV-27S26, 27V36, 29V76M, 32S26, 32TW26, 34RS26C, 35S26, 35V36, 35V36C, 37RS26 only). For detailed connection information, see "Cable box and cable" or "Cable and antenna" on page 3.

**SYSTEM OFF** KV-27V26, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V36C, 37V36M only. Press to turn off the TV and all other equipment connected with S-Link and return the TV input to either antenna or AUX, whichever was last used.

**MTS/GUIDE** Press this button to cycle through the Multi-channel TV Sounds (MTS) options. (page 20)



REFER TO THE ILLUSTRATION OF THE REMOTE CONTROL ON THE INSIDE FRONT COVER OF THIS MANUAL AS YOU REVIEW THIS CHART

### Use the Yellow Labeled Buttons for PIP Operations.

PIP	Press once to display the window picture (1/9 size). Press again to reduce the size of the window picture (1/16 size). Press a third time to remove the window picture.
TV/VIDEO	Press repeatedly to step through available video inputs: TV, Video 1, Video 2, and Video 3 (KV-27V26, 27V36, 29V36C, 29V66M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 35V36C, 37V36M only). If you use one of the connections from page 4, your PIP input source is a VCR. If you use one of the connections from page 5, your PIP input source is a VCR or cable box.
AUDIO	Press to alternate sound between the main picture and the window picture. A "J" will appear for a few seconds to indicate which picture is receiving sound.

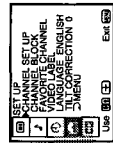
5

<b>MODE</b> Customized picture viewing	
<b>PICTURE</b> Picture Adjustment	<p><b>STANDARD:</b> Select to choose a standard picture.</p> <p><b>MOVIE:</b> Select to receive a finely detailed picture.</p> <p><b>SPORTS:</b> Select to receive a vivid, bright picture.</p> <p>Adjust slider left (cursor down) to decrease picture contrast and soften the color.</p> <p>Adjust slider right (cursor up) to increase picture contrast and create more vivid color.</p>
<b>HUE</b> Picture Adjustment	<p>Adjust slider left (cursor down) to decrease the green tones.</p> <p>Adjust slider right (cursor up) to increase the green tones.</p>
<b>COLOR</b> Picture Adjustment	<p>Adjust slider left (cursor down) to decrease color intensity.</p> <p>Adjust slider right (cursor up) to increase color intensity.</p>
<b>BRIGHTNESS</b> Picture Adjustment	<p>Adjust slider left (cursor down) to darken the picture.</p> <p>Adjust slider right (cursor up) to brighten the picture.</p>
<b>SHARPNESS</b> Picture Adjustment	<p>Adjust slider left (cursor down) to soften the picture.</p> <p>Adjust slider right (cursor up) to sharpen the picture.</p>
<b>LIGHTSENSOR</b> Picture Adjustment	<p>(04-27V/26, 27V/38, 28V/36C, 29V/68M, 29V/68M, 32V/26, 32V/38, 34V/36C, 35V/38, 35V/77, 37V/35M (only))</p> <p>ON: automatically adjusts the brightness of the picture according to the brightness of the ambient light.</p> <p>OFF: Brightness more than preset value.</p>

## 20

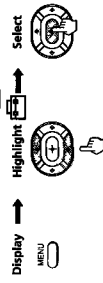
## Adjusting your SET UP (menus) (continued)

### Using the SET UP menu



For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

#### To select the SET UP menu:

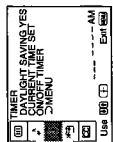


If any menu items are "grayed out", press the ANT button on your remote so that a channel number appears.

Favorite channel feature is not available for the AUX input.

<b>DAYLIGHT SAVING</b> Automatically adjusts the time	<b>Spring:</b> Select YES to compensate for Daylight Saving Time. The current time automatically moves one hour ahead. <b>Fall:</b> Select NO at the end of Daylight Saving Time. The current time moves back one hour.
<b>CURRENT TIME SET</b> Necessary for the TIMER.	<b>CURRENT TIME SET window will appear.</b> 1 Press $\star$ or $\star$ on the select buttons until the current day (MON-SUN) is displayed. Press $\rightarrow$ to select. 2 Press $\star$ or $\star$ on the select buttons until the current hour (01-12) and AM/PM is displayed. Press $\rightarrow$ to select. 3 Press $\star$ or $\star$ on the select buttons until the current minute (00-59) is displayed. 4 Press $\rightarrow$ . The Clock has now started. Press MENU to exit.
<b>ON/OFF TIMER</b> Wake up or scheduled viewing.	<b>ON/OFF TIMER window will appear.</b> 1 Press $\star$ or $\star$ on the select buttons until the desired day (MON-SUN) or range of days (EVERY Sun-Sat or EVERY Mon-Fri) is displayed. Press $\rightarrow$ to select. 2 Indicate the time (hours then minutes) that you want the TV to turn on by pressing $\star$ or $\star$ and then $\rightarrow$ . 3 Set the time duration (maximum of 6 hours) by pressing $\star$ or $\star$ and then $\rightarrow$ . <b>TO CANCEL THE TIMER FUNCTION, PRESS RESET.</b> 4 Press $\star$ or $\star$ on the select buttons to select the desired channel. Press $\rightarrow$ to select. The timer is now set. The TIMER indicator on your TV will be lit. Press MENU to exit. When you perform AUTO PROGRAM, all TIMER settings will be erased.

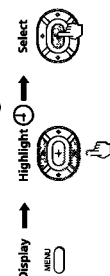
### Using the TIMER menu



After setting the clock you can use the timer to turn the TV on and off.

For detailed information on using the remote to modify menu settings, refer to "Learning menu selection" on page 18.

#### To select the TIMER menu:



**Tip**  
Set daylight saving time before setting the clock. Any loss of power will cause these settings to be erased.

## Operating video equipment

### Setting the manufacturer's code

You can use the supplied remote control to operate Sony or non-Sony video equipment that has an infrared sensor.

- 1 Press CODE SET.
- 2 Press VTR (FUNCTION).
- 3 Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
- 4 Press ENTER.

#### VCR manufacturer code

Manufacturer	Code
Sony	301, 302, 303
Alwa	338, 344
Admiral (M. Wards)	327
Audio Dynamic	314, 337
Bed & Howell (M. Wards)	330, 343
Broksonic	315, 317
Canon	305, 308
Craig	309, 329
Crion	315, 302, 332
Curtis Mathis	315
Sansui	304, 338, 309

Daewoo	341, 312, 309	Singer	315
DBX	314, 336, 337	Samsung	322, 313, 321
Dimensia	304	Sanyo	330, 335
Emerson	319, 320, 316, 317, 318, 319	Scott	312, 313, 321, 335, 323, 324, 325, 326
Fisher	330, 334, 335, 333	Sharp	327, 315
Funai	329, 304, 309	Shionto	327, 328
General Electric	322	Signature 2000 (M. Wards)	338, 327
Go Video	329, 304, 309	Sylvania	308, 309, 338, 310
Goldstar	332	Symphonic	338
Hitachi	306, 304, 305, 338	SV2000	332
Instant Replay	309, 305, 304, 330, 314, 336, 337	Tashiro	314, 336, 337
JC Penney	314, 336, 337	Tatung	314, 336, 338, 337
JVC	314, 336, 337	Teac	312, 311
Kenwood	332, 305, 333, 334, 308, 309, 310	Technics	309, 306
LXI (Sears)	332, 305, 333, 334, 308, 309, 310	Toshiba	327, 328, 335, 331, 332
Magnavox	314, 336, 337	Wards	330, 314, 336, 337
Marantz	309, 335	XR-1000	331
Memorex	305, 335, 332	Zenith	331
Minolta	305, 304		

Manufacturer	Code
Sony	701
Kenwood	707
Magnavox	703
Marantz	702
Mitsubishi	704, 710
Panasonic	703
Philips	703

<b>CHANNEL BLOCK</b> Prevent child access to certain channels.	You will be able to block two channels. With the CHANNEL BLOCK window open: 1 Select 1 or 2 and press $\rightarrow$ . 2 Press $\star$ or $\star$ on the select buttons to display the channel you want to block. 3 Press $\rightarrow$ to activate. When you select the blocked channel, "BLOCKED" will appear on the screen. Caption Vision, XDS, and output from the selected channel will be blocked. Press $\rightarrow$ to exit the CHANNEL BLOCK window. When you perform AUTO PROGRAM, your CHANNEL BLOCK settings will be erased.
<b>FAVORITE CHANNEL</b> Quick access to favorite channels.	<b>Setting FAVORITE CHANNEL:</b> With the FAVORITE CHANNEL window open: 1 Press $\star$ or $\star$ on the select buttons to select AUTO or MANUAL, and press $\rightarrow$ again. 2 Press $\star$ or $\star$ on the select buttons to select the last five channels that the remote control 0-9 buttons to be selected. 3 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 4 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 5 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 6 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 7 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 8 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 9 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 10 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 11 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 12 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 13 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 14 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 15 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 16 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 17 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 18 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 19 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 20 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 21 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 22 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 23 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 24 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 25 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 26 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 27 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 28 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 29 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 30 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 31 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 32 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 33 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 34 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 35 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 36 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 37 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 38 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 39 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 40 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 41 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 42 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 43 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 44 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 45 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 46 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 47 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 48 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 49 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 50 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 51 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 52 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 53 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 54 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 55 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 56 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 57 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 58 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 59 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 60 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 61 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 62 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 63 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 64 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 65 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 66 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 67 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 68 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 69 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 70 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 71 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 72 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 73 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 74 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 75 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 76 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 77 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 78 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 79 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 80 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 81 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 82 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 83 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 84 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 85 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 86 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 87 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 88 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 89 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 90 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 91 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 92 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 93 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 94 Press $\star$ or $\star$ on the select buttons to select 1, 2, 3, 4, or 5 and press $\rightarrow$ . 95 Press $\star$ or $\star</$

Pioneer	702
RCA	702, 709
Sanyo	706
Sharp	705
Yamaha	703, 708

- Tips**
- In some rare cases, you may not be able to operate your non-Sony video equipment with the supplied remote control. In this case, please use the equipment's own remote control.
  - The code numbers for Sony equipment are assigned at the factory as follows:

VHS VCR	301 (preset code for supplied remote control)
8 mm VCR	302
Beta, ED Beta VCRs	303

- When you remove the batteries, the code number may revert to the factory setting.

Operating a VCR	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To select a channel directly	Press the 0-9 buttons.
To change channels	Press CH +/-.
To record	Press <b>II</b> while pressing <b>II</b> . First release <b>II</b> , then release <b>II</b> .
To play	Press <b>II</b> .
To stop	Press <b>II</b> .
To fast forward	Press <b>II</b> .
To rewind the tape	Press <b>II</b> .
To pause	Press <b>II</b> . To resume normal playback, press again.
To search the picture forward or backward	Press <b>II</b> or <b>II</b> during playback. To resume normal playback, release the button.
To change input mode	Press TV/VTR.

Operating an MDP	Buttons on the remote control
To turn on or off	Press VTR (POWER).
To play	Press the <b>II</b> .
To stop	Press <b>II</b> .
To pause	Press <b>II</b> . To resume normal playback, press again.
To search the picture forward or backward	Press <b>II</b> or <b>II</b> during playback. To resume normal playback, release the button.
To search the chapter forward or backward	Press CH +/-.

## Operating a cable box or DBS receiver

### Programming the remote

You can program the supplied remote control to operate a cable box or DBS receiver.

- Press CODE SET.
- Press DBS/CABLE (FUNCTION).
- Use the 0-9 buttons to key in the manufacturer's code number from the following chart.
- Press ENTER.

### To operate the TV

Press TV (FUNCTION). Then use the TV control buttons to control the TV.

### For more details on operating the cable box or DBS receiver

Refer to the operating instructions that come with the equipment.

### Manufacturer code numbers (cable box)

Manufacturer	Code number
Hamlin/Regal	222, 223, 224, 225, 226
Jerrold/G.I.	201, 202, 203, 204, 205, 206, 207, 208, 216
Oak	227, 228, 229
Panasonic	219, 220, 221
Pioneer	214, 215
Scientific Atlanta	209, 210, 211
Tocom	216, 217
Zenith	212, 213

### Manufacturer code numbers (DBS receiver)

Manufacturer	Code number
Sony	801 (preset code for remote control)
General Electric	802
RCA/PROSCAN	802

**If the remote control doesn't work**

First, try repeating the setup procedures using the other codes listed for your equipment.

### Tips

- If more than one code number is listed, try entering them one by one until you come to the correct code for your equipment.
- If you enter a new code number, the code number you previously entered at that setting is erased.
- In some rare cases, you may not be able to operate your equipment with the supplied remote control. In this case, use the equipment's own remote control unit.
- When you remove the batteries—to replace them, for example—if too much time is taken, the code numbers may revert to the factory setting and must be reset.

## Troubleshooting

### Troubleshooting

**Cannot Operate Single-Tuner PIP (KV-27S26, 27V26, 29H256C, 29V56M, 32S26, 32TV26, 34H26C, 35S26, 37H26 only)**

- Check that cable is connected to the VCR, and the VCR is turned on.
- Check that the VCR is connected to the TV.

### No picture (screen not lit), no sound

- Make sure the power cord is plugged in.
- Operate with the buttons on the TV and the remote control.

Insert the batteries in the remote control with the correct polarity.

- Replace the batteries with new ones if they are weak.

- Check to see if the TV/VIDEO setting is correct: when watching TV, set to TV, and when watching video tapes, set to VIDEO1, 2, or 3.

- Try another channel. It could be station trouble.

- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

### Poor or no picture (screen lit), good sound

- Adjust PICTURE in the VIDEO menu. (page 19)
- Adjust BRIGHTNESS in the VIDEO menu. (page 19)

- Check antenna/cable connections.

- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

- Remove objects from the front of TV.

- Check the LIGHTSENSOR setting in the VIDEO menu. (page 19)

### Good picture, no sound

- Press MUTE so that "MUTING" disappears from the screen. (page 14)

- Check the MTS setting in the AUDIO menu. (page 20)

- Make sure SPEAKER is set to ON in the AUDIO menu. (page 20)

- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

### No color

- Adjust the COLOR in the VIDEO menu. (page 19)

- Black and white programs cannot be seen in color.

- Perform AUTO SET UP again using the SET UP button to return to the factory preset condition. (page 13)

### Only snow and noise appear on the screen

- Check the CABLE setting in the SET UP menu. (page 22)

- Check the antenna/cable connections.

- Make sure the channel is broadcasting programs.

- Press ANT to change the input mode. (page 15)

### Dotted lines or stripes

- Adjust the antenna.

- Move the TV away from noise sources such as cars, neon signs, or hair-dryers.

### Double images or ghosts

- Use a highly directional outdoor antenna or a cable (when the problem is caused by reflections from nearby mountains or tall buildings).

### Cannot operate menu

- If the item you want to choose appears in gray, you cannot select it. Press TV/VIDEO correctly.

## Troubleshooting (continued)

### Cannot receive upper channels (UHF) when using an antenna

- Make sure CABLE is OFF in the SET UP menu. (page 22)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page 22)

### Cannot receive any channels when using cable TV

- Make sure CABLE is ON in the SET UP menu. (page 22)
- Use AUTO PROGRAM to add receivable channels that are not presently in TV memory. (page 22)

### Remote control does not operate

- Batteries could be weak. Replace the batteries.

- Press TV (FUNCTION) when operating your TV.

- Make sure the TV's power cord is connected securely to the wall outlet.

- Locate the TV at least 3-4 feet away from fluorescent lights.

- Check the S-Link connection. (page 4, 5)

### Cannot gain enough volume when using a cable box

- Increase the volume at the cable box. Then press TV (FUNCTION) and adjust the TV's volume.

### TV is fixed to one channel

- Try turning CHANNEL FIX off. (see page 22)

- Use AUTO PROGRAM to add receivable channels that are not presently in the TV memory. (page 22)

- To reset the TV: First, turn the TV on. Then, while pressing the RESET key on the remote control, press the POWER Key on the TV. The TV will turn itself off, then back on. When the TV turns on again, all settings will be reset, and the EASY SETUP GUIDE will appear.

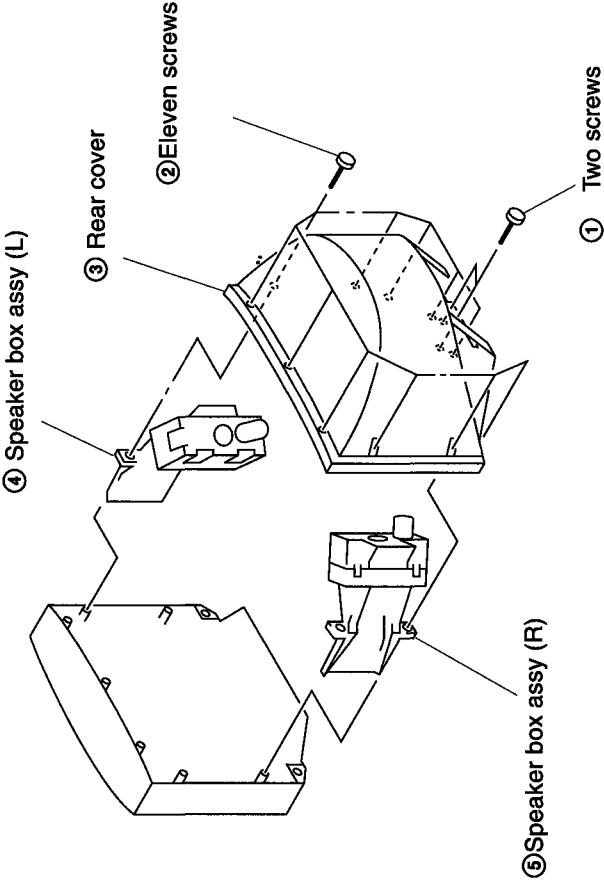
### TV malfunctions when using the S-Link function (KV-27V26, 27V26, 29V36C, 29V56M, 29V76M, 32V26, 32V36, 34V36C, 35V36, 37V36M only)

- Make sure the TV's power cord is connected securely to the wall outlet.

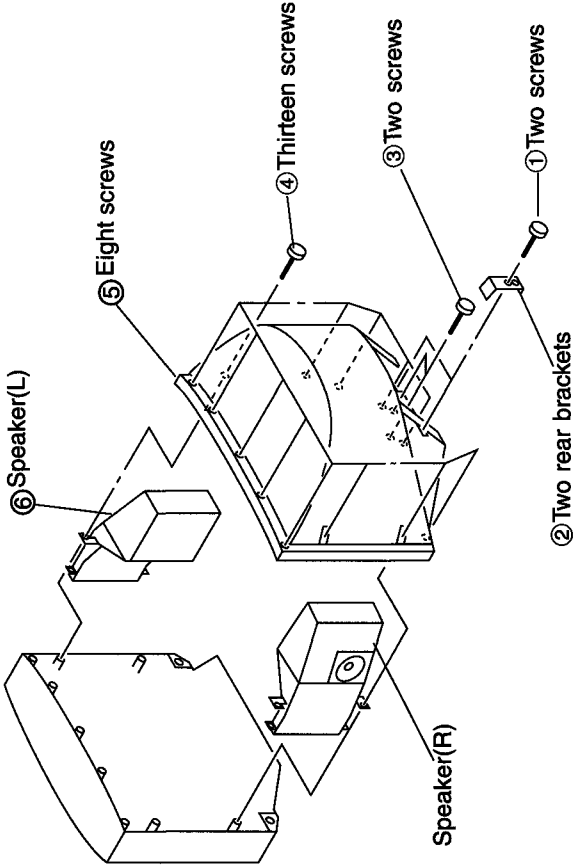
- Check the S-Link connection. (page 4, 5)

**SECTION 2**  
**DISASSEMBLY**

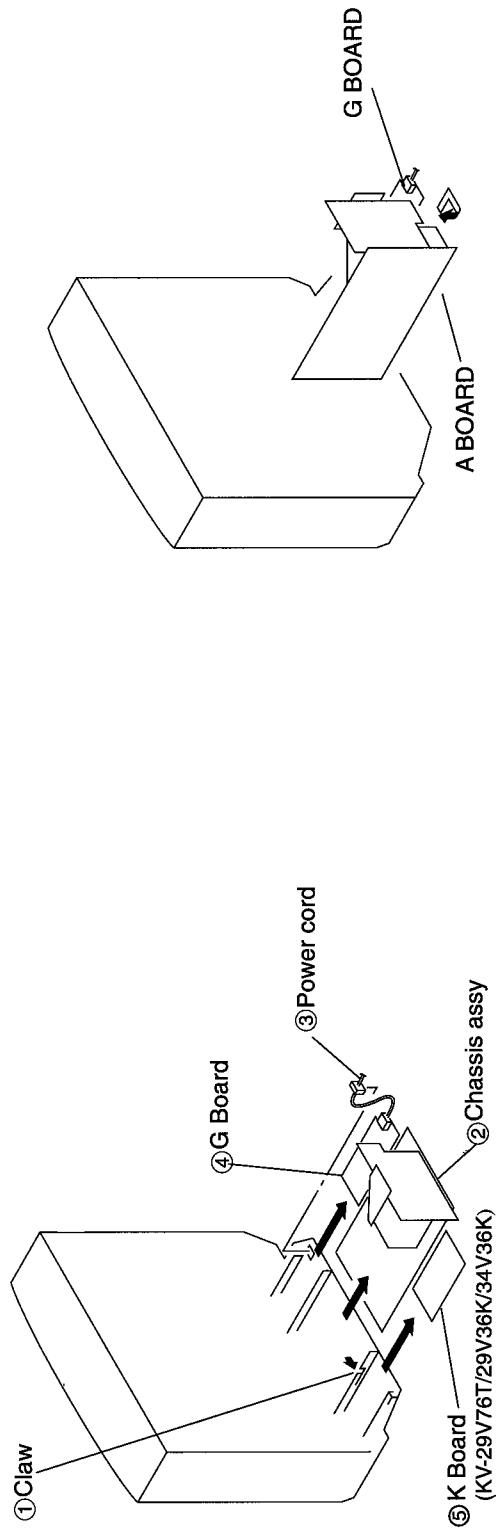
**2-1-1. REAR COVER REMOVAL (except KV-37V36T)**



**2-1-2. REAR COVER AND SPEAKER REMOVAL (KV-37V36T only)**

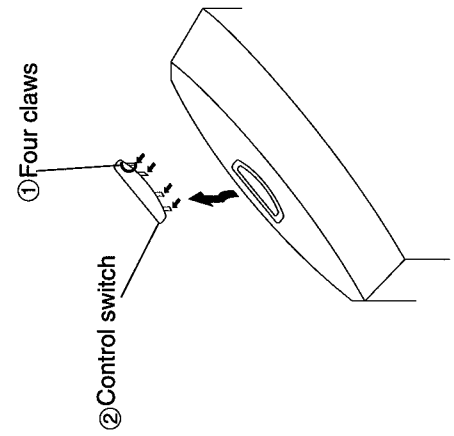


## 2-3. SERVICE POSITION



## 2-2. CHASSIS ASSY REMOVAL

## 2-4. CONTROL SWITCH REMOVAL (KV-29V36K/29V76T/34V36K/37V36T)

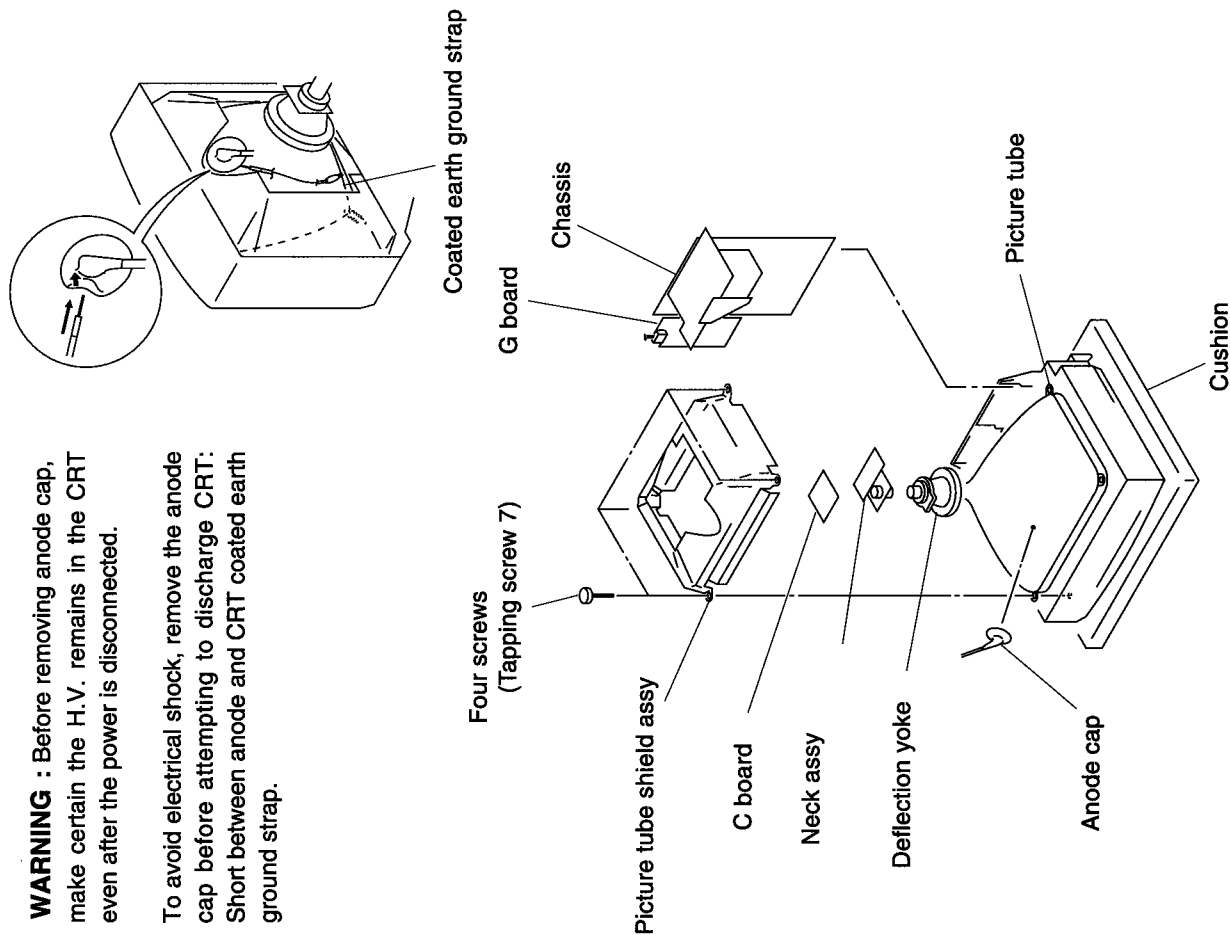




## 2-5-2. PICTURE TUBE REMOVAL (KV-34V36K)

**WARNING :** Before removing anode cap, make certain the H.V. remains in the CRT even after the power is disconnected.

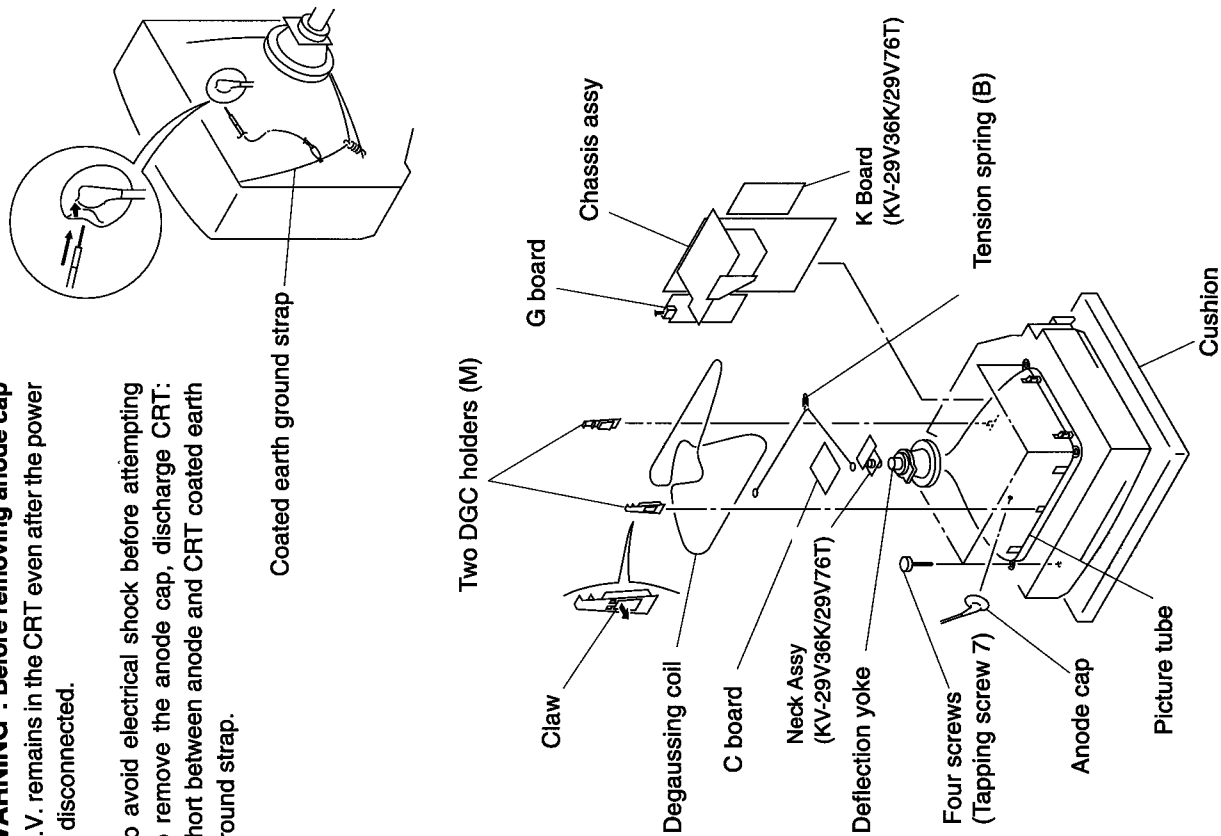
To avoid electrical shock, remove the anode cap before attempting to discharge CRT: Short between anode and CRT coated earth ground strap.



## 2-5-1. PICTURE TUBE REMOVAL (KV-27V22/29V22T/29V36K/29V76T)

**WARNING :** Before removing anode cap H.V. remains in the CRT even after the power is disconnected.

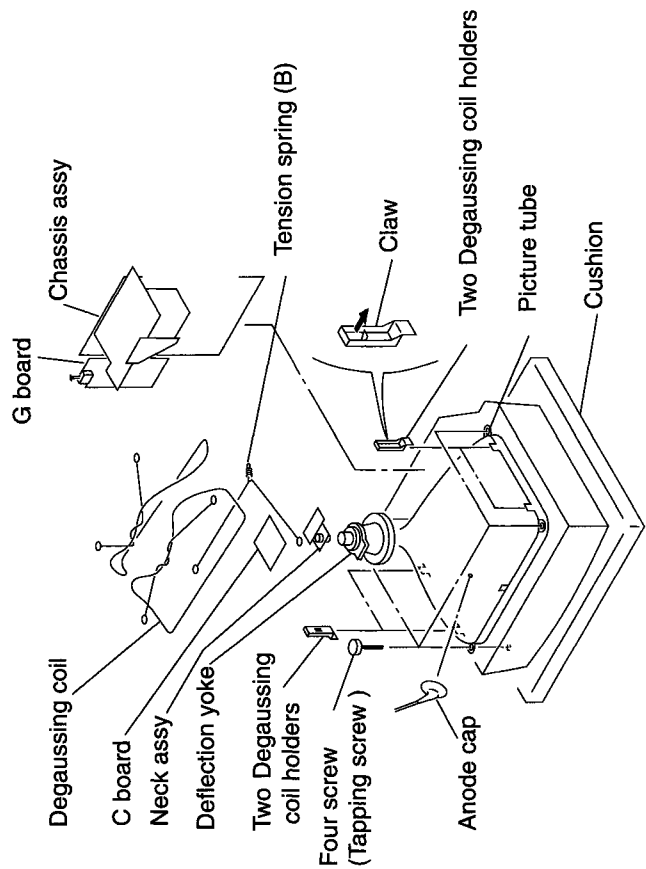
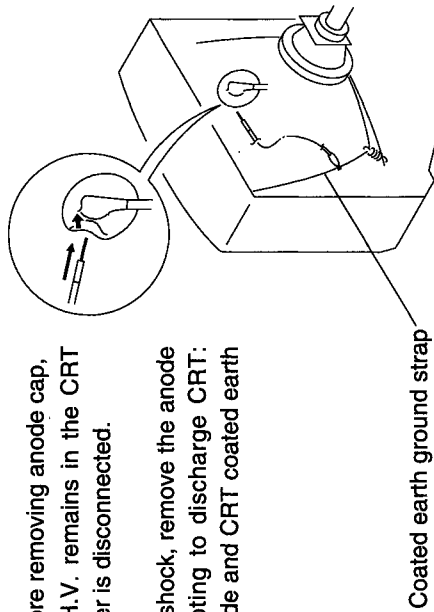
To avoid electrical shock before attempting to remove the anode cap, discharge CRT: Short between anode and CRT coated earth ground strap.



## 2-5-3. PICTURE TUBE REMOVAL (KV-37V36T)

**WARNING :** Before removing anode cap, make certain the H.V. remains in the CRT even after the power is disconnected.

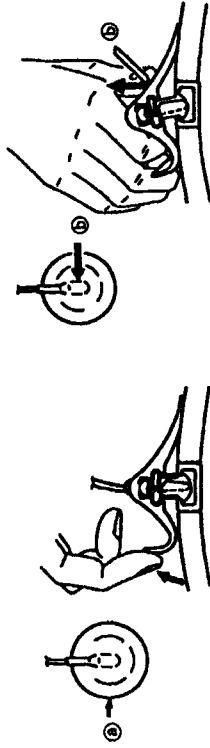
To avoid electrical shock, remove the anode cap before attempting to discharge CRT: Short between anode and CRT coated earth ground strap.



### • REMOVAL OF THE ANODE-CAP

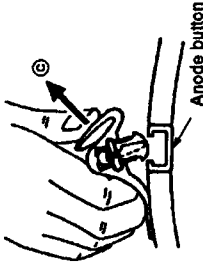
NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis CRT shield or carbon painted on the CRT, after removing the anode.

### • REMOVAL PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by arrow (a).

② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).



③ When one side of the rubber cap separates from the anode button, the anode-cap can be removed by turning the rubber cap and pulling it in the direction of arrow (c).

### • HOW TO HANDLE AN ANODE-CAP

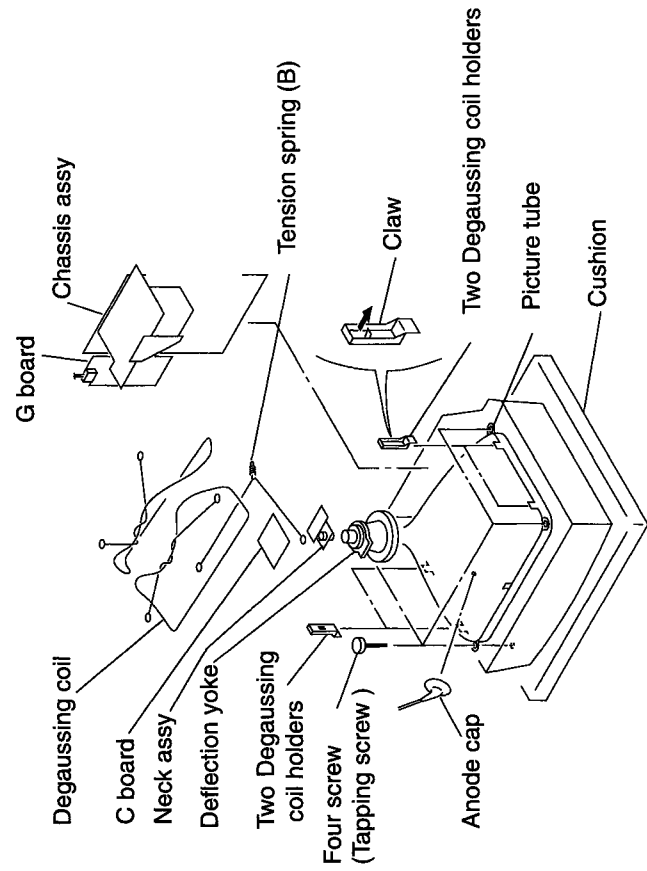
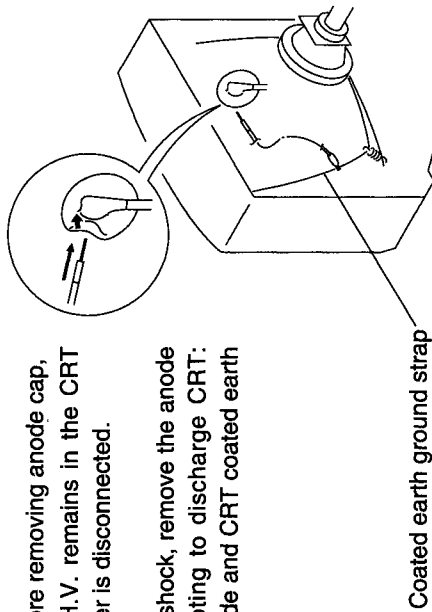
- ① Do not use sharp objects which may cause damage to the surface of the anode-cap.
- ② Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
- ③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



### 2-5-3. PICTURE TUBE REMOVAL (KV-37V36T)

**WARNING :** Before removing anode cap, make certain the H.V. remains in the CRT even after the power is disconnected.

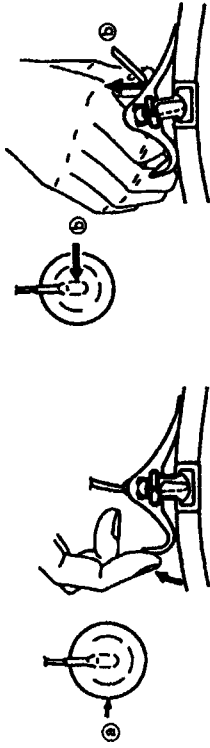
To avoid electrical shock, remove the anode cap before attempting to discharge CRT: Short between anode and CRT coated earth ground strap.



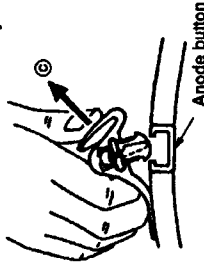
#### • REMOVAL OF THE ANODE-CAP

NOTE: Short circuit the anode of the picture tube and the anode cap to the metal chassis CRT shield or carbon painted on the CRT, after removing the anode.

#### • REMOVAL PROCEDURES



② Use your thumb to pull the rubber cap firmly in the direction indicated by arrow (b).






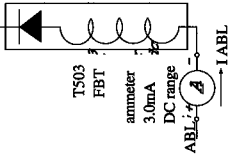
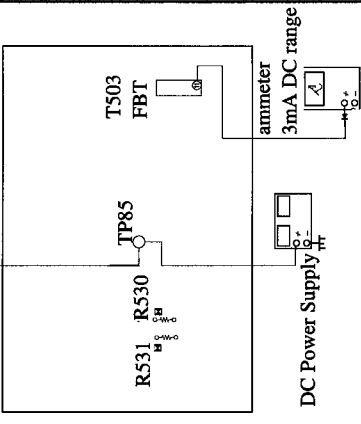
④ Do not use sharp objects which may cause damage to the surface of the anode-cap.


#### • HOW TO HANDLE AN ANODE-CAP

- ① Do not use sharp objects which may cause damage to the surface of the anode-cap.
- ② Do not squeeze the rubber covering too hard to avoid damaging the anode-cap. A material fitting called a shatter-hook terminal is built into the rubber.
- ③ Do not force turn the foot of the rubber cover. This may cause the shatter-hook terminal to protrude and damage the rubber.



### SECTION 3 SAFETY RELATED ADJUSTMENTS

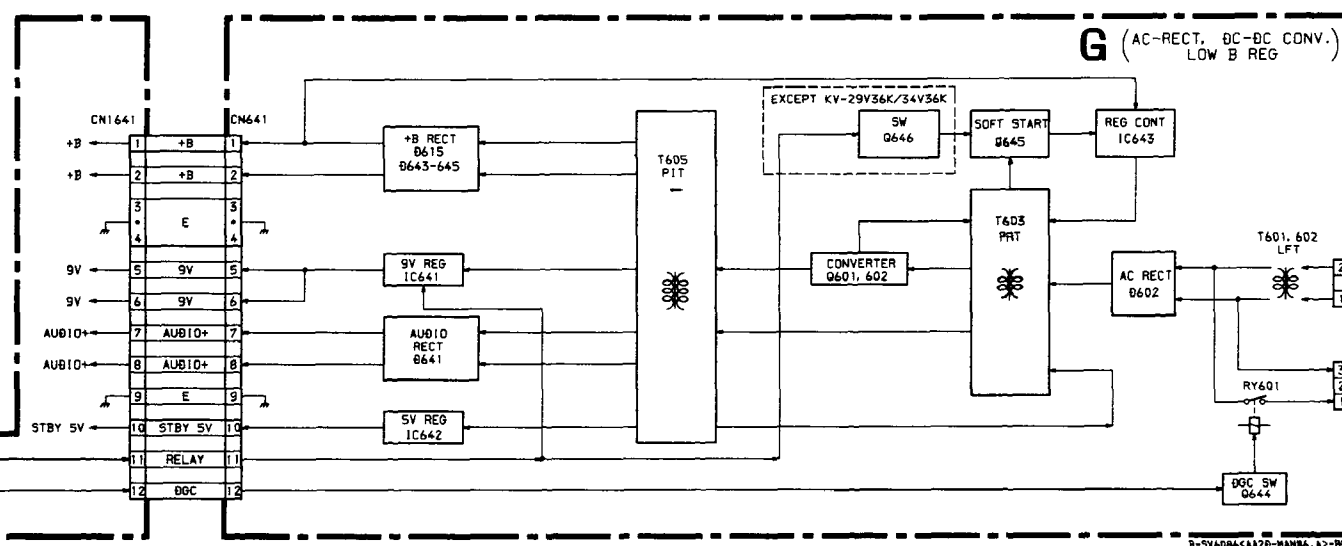
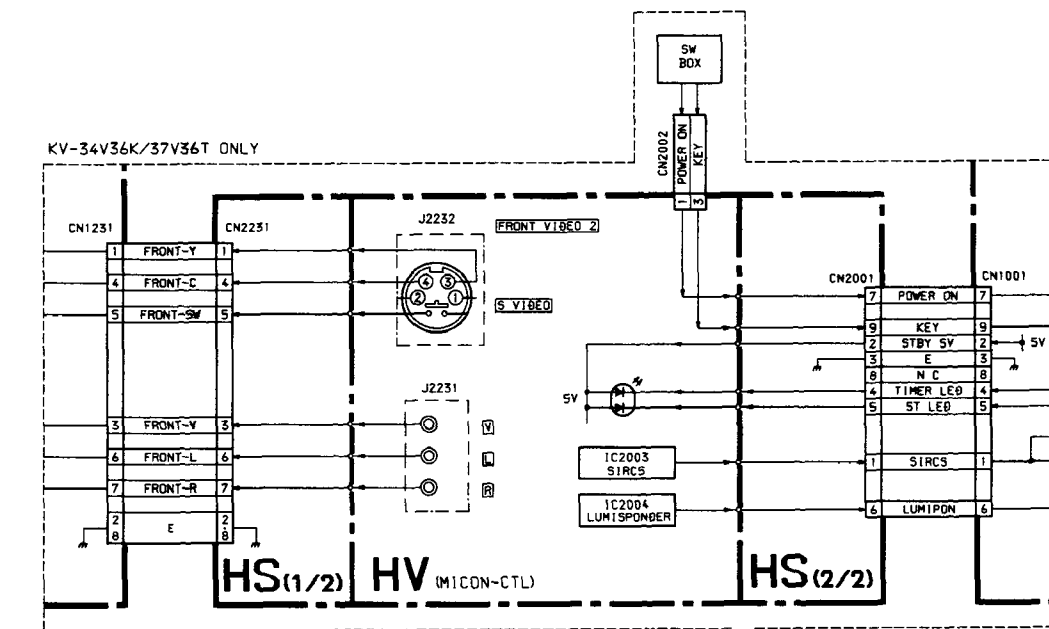
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<p><b>RESISTOR CONFIRMATION METHOD ( HOLD-DOWN CONFIRMATION) AND READJUSTMENTS</b></p> <p>The following adjustments should always be performed when replacing the components marked with  on the A and G Board schematic diagrams. (Hold-down operation confirmation)</p> <p><b>Step 1</b> Preparation before confirmation: a) Turn the POWER switch ON, input a white signal, and set the PICTURE and BRIGHTNESS controls to maximum.</p> <p>b) Confirm that the voltage at the check terminal of TP85 is more than 18.0 VDC (34 and 37 in.) or 21.0 VDC (27/29 in.) when the set is operating normally (120 <math>\pm</math>2.0 VAC) or (220 <math>\pm</math>2.0 VAC for KV-29V36K/34V36K only)</p> <p><b>Step 2</b> Input a white signal and verify that I ABL is within the specified range.</p> <p><b>Step 3</b> Record the voltage between TP85 and ground.</p> <p><b>Step 4</b> Using an external DC power supply, apply voltage between TP 85 and ground. Increase the voltage gradually and confirm that the hold-down works (raster disappears) at lower than the voltage recorded in Step 3.</p> <p><b>Step 5</b> Confirm that a voltage of more than 18.0 VDC (34 and 37 in.) or 21.0 VDC (27/29 in.) appears between TP85 and ground.</p>	<p>White Picture</p> <p>Digital multimeter</p> <p>White Picture</p> <p>White Picture</p>	<p> marked parts A Board IC351, IC501 D519, D520, D521, C531, C532, R387, R529, R530, R531 R532, R533, R550, T503 G Board IC643, R661 TP85 (H. PROT)</p>	<p> R530, 531</p> <p>PICTURE BRIGHTNESS ..... maximum</p> <p></p> <p>PICTURE BRIGHTNESS ..... maximum</p>	<p>A BOARD - CONDUCTOR SIDE -</p> <p></p> <p>[Check Condition] Step 2 1760 <math>\pm</math> 100 <math>\mu</math>A (27/29 in.) 2160 <math>\pm</math> 100 <math>\mu</math>A (34 and 37 in.) 120 <math>\pm</math>2.0 VAC (Power Supply) 220 <math>\pm</math>2.0 VAC (Power Supply) (KV-29V36K/34V36K only)</p> <p>[Check Condition] Step 4 lower than 26.05 VDC (27/29 in.) lower than 22.05 VDC (34 and 37 in.) 120 <math>\pm</math>2.0 VAC (Power Supply) 220 <math>\pm</math>2.0 VAC (Power Supply) (KV-29V36K/34V36K only)</p> <p>[Check Condition] Step 5 more than 21.0 VDC (27/29 in.) more than 18.0 VDC (34 and 37 in.) 120 <math>\pm</math>2.0 VAC (Power Supply) 220 <math>\pm</math>2.0 VAC (Power Supply) (KV-29V36K/34V36K only)</p>

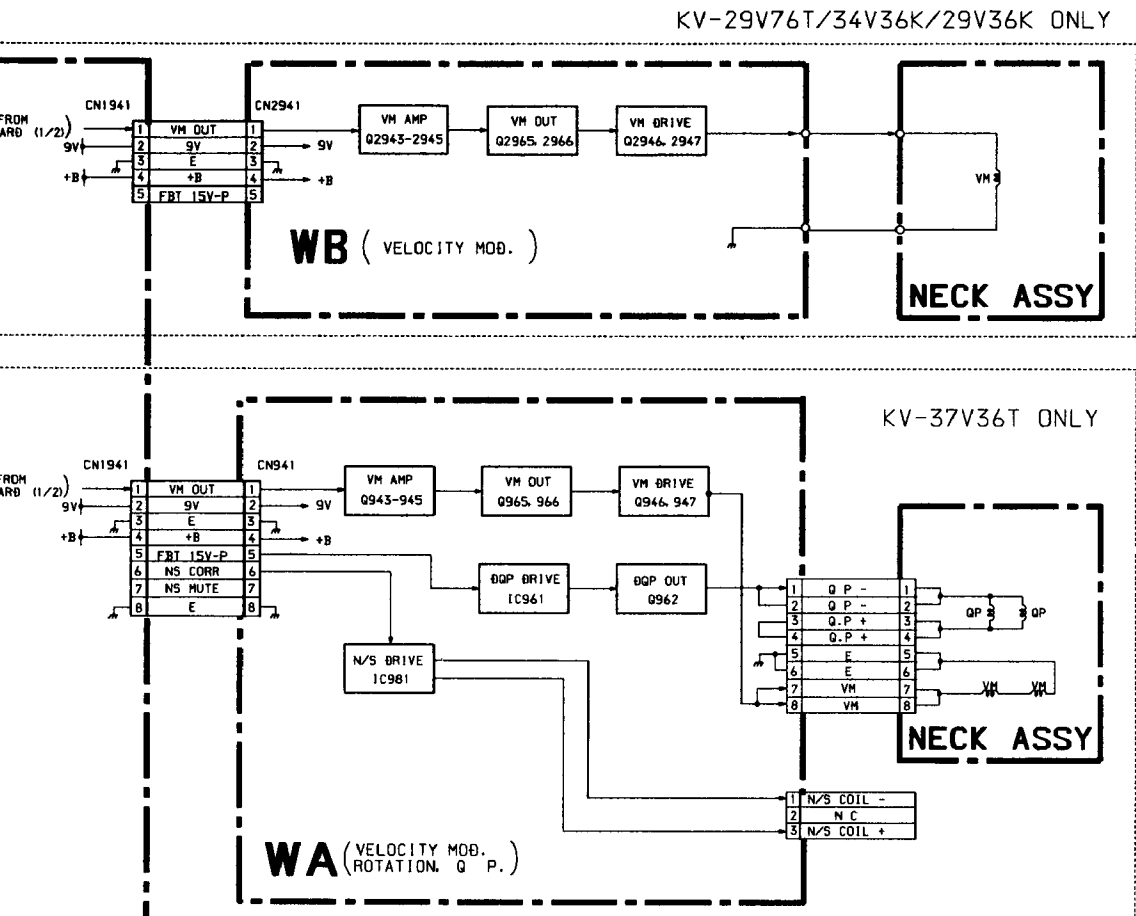
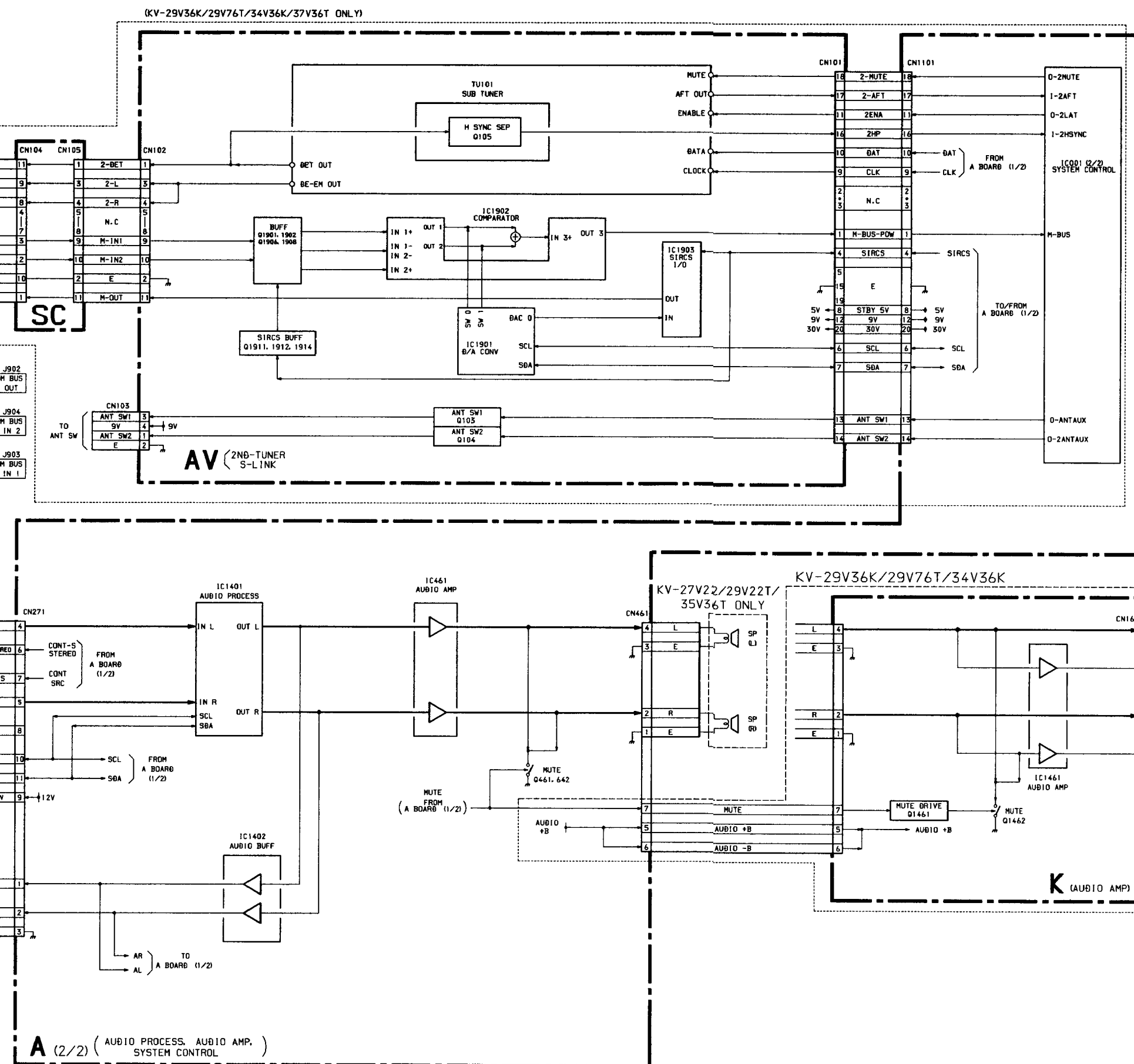
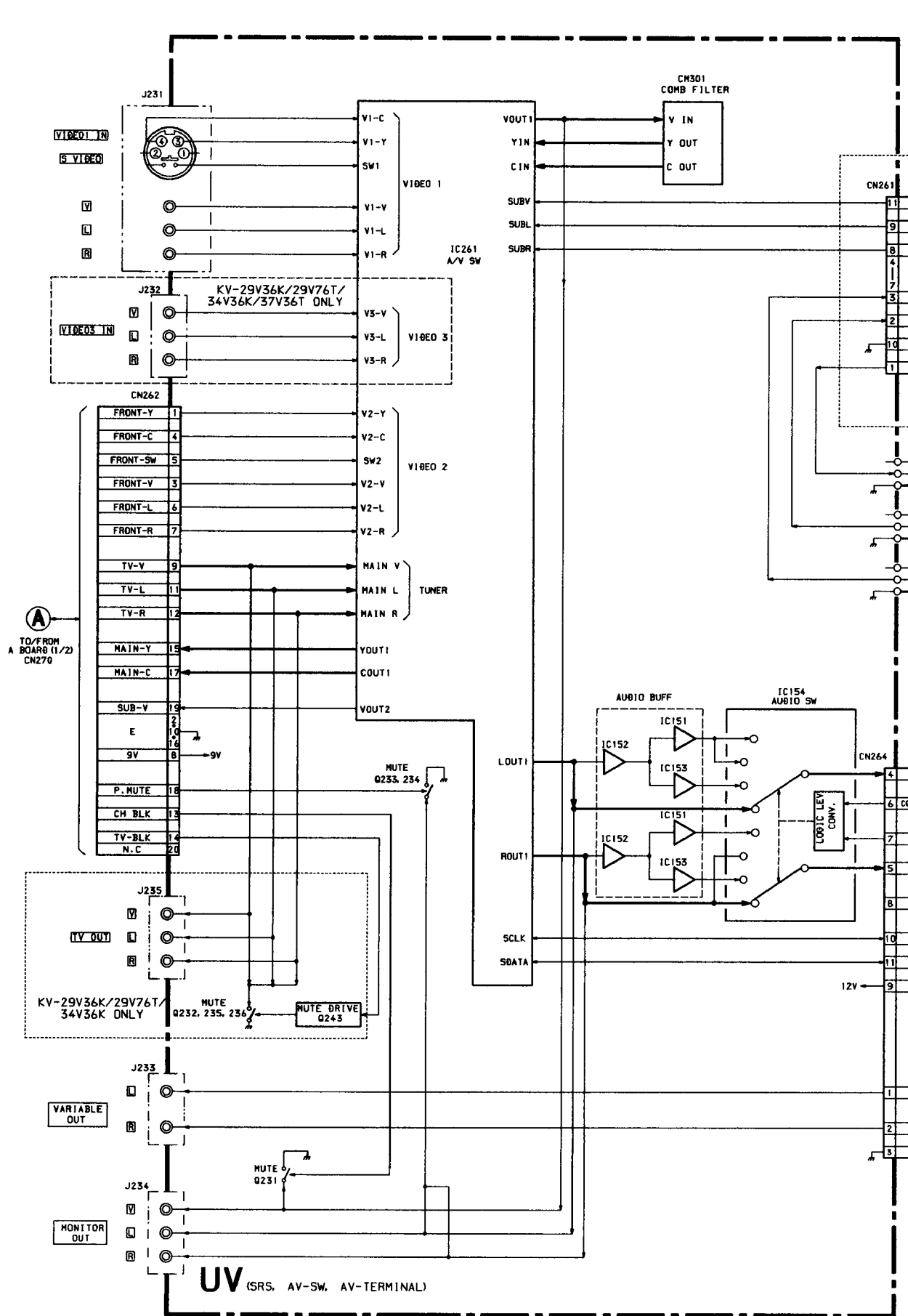
ADJUSTMENT ITEM AND PROCEDURE	EQUIPMENT AND SIGNAL	MEASUREMENT POSITION	ADJUSTMENT LOCATION	ILLUSTRATION AND SHAPE AND NUMBER
<div data-bbox="324 327 344 489" style="border: 1px solid black; padding: 2px; display: inline-block;"> <b>B+ VOLTAGE CONFIRMATION</b> </div> <p>The following adjustments should always be performed when replacing the components marked with  on the schematic.</p> <ol style="list-style-type: none"> <li>1) Supply AC Voltage with a variable auto-transformer.</li> <li>2) Input an entirely monoscope signal.</li> <li>3) Set the PICTURE control and the BRIGHTNESS control to initial reset value.</li> <li>4) Confirm the voltage of the G board CN641 between pin 1 to ground is less than 136.5 VDC.</li> <li>5) If step 4) is not satisfied, replace the R661 and repeat above steps.</li> </ol>	<p>Variable auto-transformer</p> <p>Monoscope</p>	<p>G-Board IC643, R661</p> <p>G Board CN641 Pin 1 - ground</p>	<p>PICTURE, BRIGHTNESS ..... initial reset</p>	<p>130 <math>^{+2.0}_{-0}</math> V AC</p> <p>220 <math>^{+2.0}_{-0}</math> V AC (KV-29V36K/34V36K)</p>

**NOTES:**

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## SECTION 4 DIAGRAMS



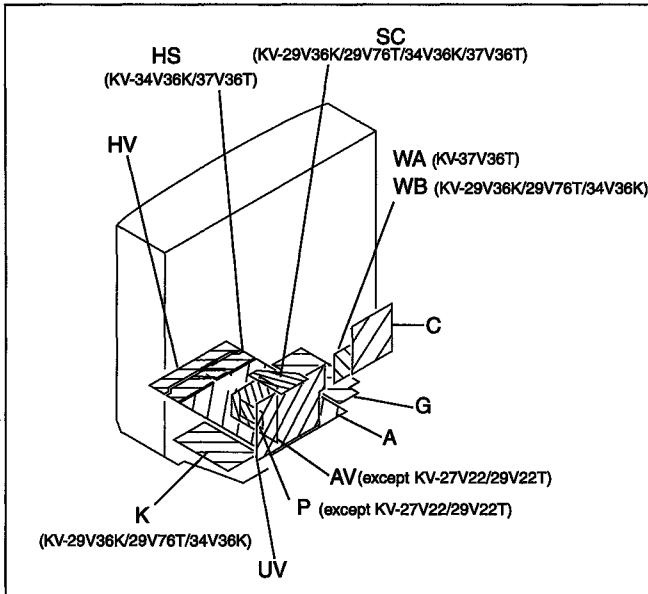




## SECTION 4

### DIAGRAMS (continued)

#### 4-2. CIRCUIT BOARDS LOCATION



#### 4-3. PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

##### Note

- All capacitors are in  $\mu\text{F}$  unless otherwise noted  $\mu\text{F}$   $\mu\text{F}$  50VW or less are not indicated except for electrolytics and tantalums
- All electrolytics are in 50V unless otherwise specified
- All resistors are in ohms  
 $k\Omega=1000\Omega$ ,  $M\Omega=1000k\Omega$
- Indication of resistance, which does not have one for rating electrical power, is as follows

Pitch 5mm
Rating electrical power $\frac{1}{4} W$

- $\frac{1}{4} W$  in resistance,  $\frac{1}{10} W$  and  $\frac{1}{8} W$  in chip resistance
- nonflammable resistor
- fusible resistor
- $\Delta$  internal component
- panel designation and adjustment for repair
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted
- The components identified by in this basic schematic diagram have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation  
Should replacement be required, replace only with the value originally used
- When replacing components identified by , make the necessary adjustments indicated. If results do not meet the specified value, change the component identified by and repeat the adjustment until the specified value is achieved  
(Refer to R530 and R531 adjustment on Page 16-17)
- When replacing the part in below table, be sure to perform the related adjustment

Part replaced()	Adjustment()
IC351, IC501, D519, D520, D521 C531, C532, R387, R529, R530, R531, R532, R533, R550, T503.....A BOARD IC643, R661.....G BOARD	R530, R531

- Readings are taken with a color-bar signal input
- Readings are taken with a 10M $\Omega$  digital multimeter
- Voltages are DC with respect to ground unless otherwise noted
- Voltage variations may be noted due to normal production tolerances
- All voltages are in V
- S Measurement impossibility

- B+line
- B-line

(Actual measured value may be different).

- signal path (RF)
- Circled numbers are waveform references

##### Reference information

RESISTOR	RN	METAL FILM
	RC	SOLID
	FPRD	NONFLAMMABLE CARBON
	FUSE	NONFLAMMABLE FUSIBLE
	RW	NONFLAMMABLE WIREWOUND
	RS	NONFLAMMABLE METAL OXIDE
	RB	NONFLAMMABLE CEMENT
	$\times$	ADJUSTMENT RESISTOR
	COIL	LF-8L MICRO INDUCTOR
	CAPACITOR	TA TANTALUM
	PS	STYROL
	PP	POLYPROPYLENE
	PT	MYLAR
	MPS	METALIZED POLYESTER
	MPP	METALIZED POLYPROPYLENE
	ALB	BIPOLAR
	ALT	HIGH TEMPERATURE
	ALR	HIGH RIPPLE

##### Note:

The symbol display is on the component side

The components identified by shading and mark are critical for safety. Replace only with part number specified.

The symbol indicate fast operating fuse.  
Replace only with fuse of same rating as marked.

##### Note:

Les composants identifiés par un tramé et une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié

Le symbole indique une fusible à action rapide. Doit être remplacée par une fusible de même valeur, comme marqué.

# P BOARD IC VOLTAGE LIST

IC3301		21	30	12	03
pin	volt	22	47	13	NC
1	GND	23	GND	14	30
2	NC	24	29	15	GND
3	GND	IC3302		16	GND
4	40	pin	volt	17	07
5	68	IN	91	18	05
6	GND	OUT	53	19	02
7	02	IC3303		20	03
8	0	pin	volt	21	51
9	18	1	GND	22	52
10	03	2	32	23	NC
11	82	3	26	24	NC
12	82	4	23	25	GND
13	39	5	51	26	NC
14	34	6	GND	27	GND
15	GND	7	05	28	23
16	28	8	0	29	52
17	NC	9	06	30	26
18	25	10	52	31	42
19	35	11	21	32	25
20	30				

All voltages are in V

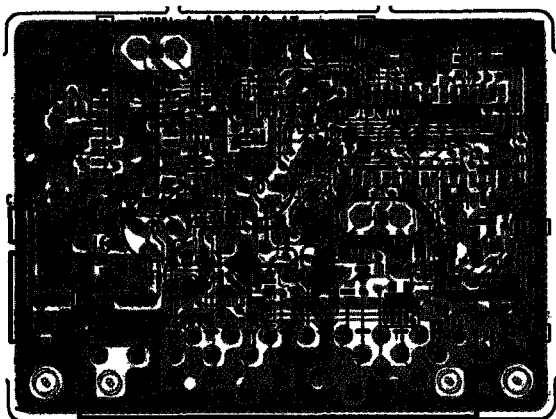
# P BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q3301	53	91	47
Q3305	05	GND	12
Q3306	08	GND	14
Q3307	06	GND	13
Q3308	0	28	GND
Q3310	0	52	GND
Q3312	0	0	08
Q3313	08	04	GND

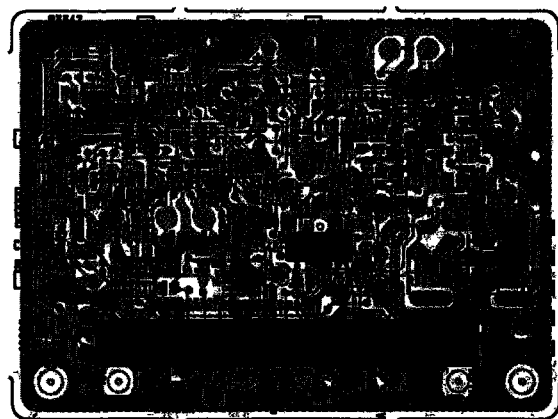
All voltages are in V

**P** [P in P]  
(EXCEPT KV-27V22/29V22T)

< COMPONENT SIDE >

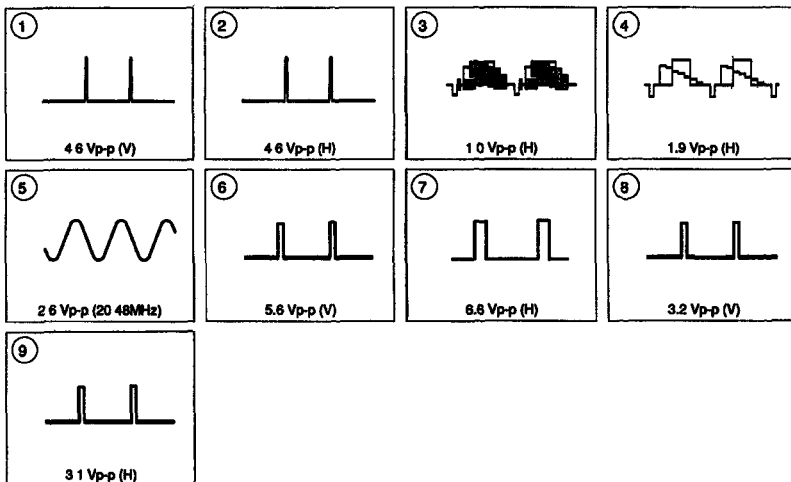


< CONDUCTOR SIDE >



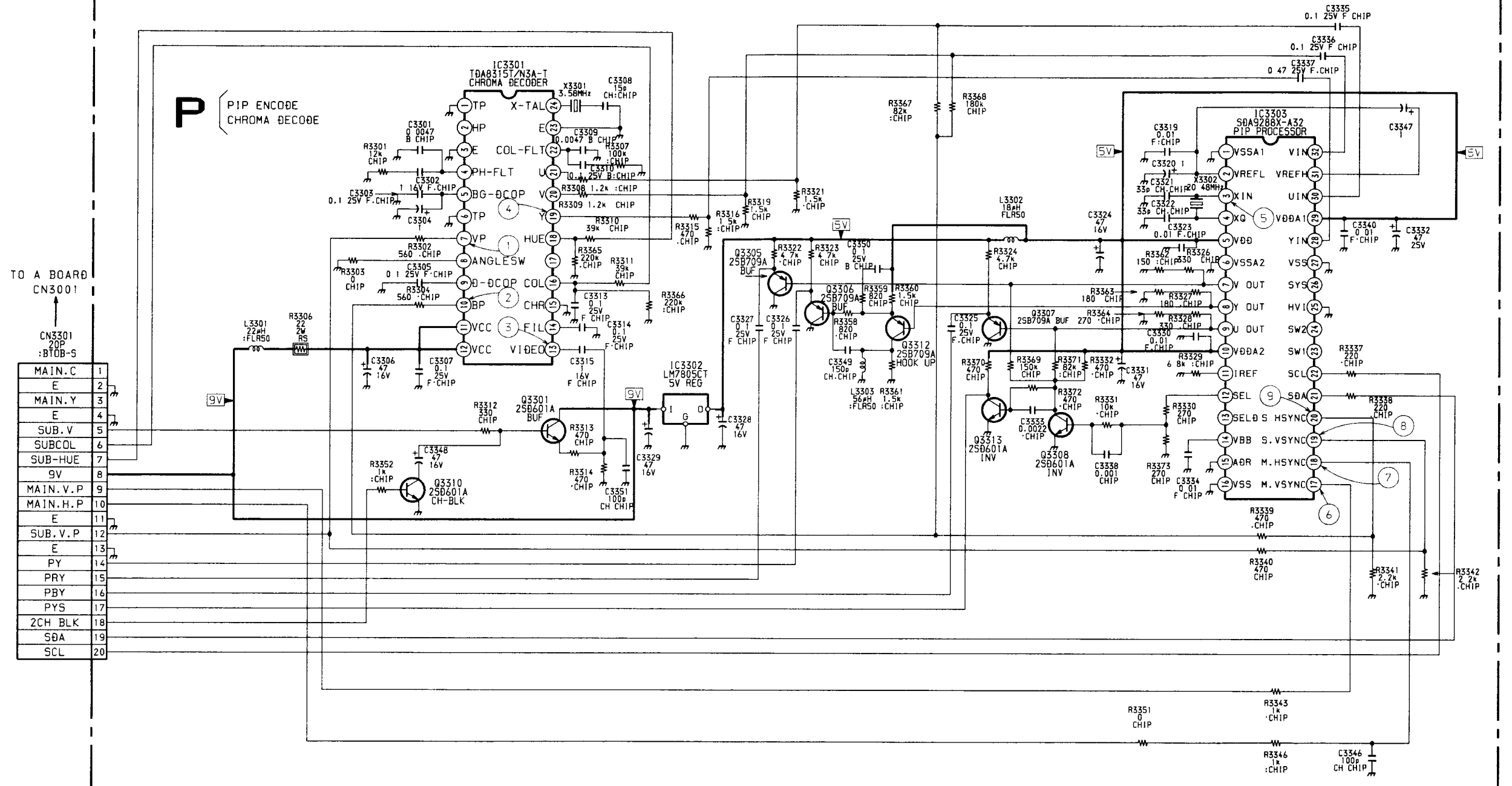
Pattern from the side which enables seeing  
Pattern of the rear side

# P BOARD WAVEFORMS

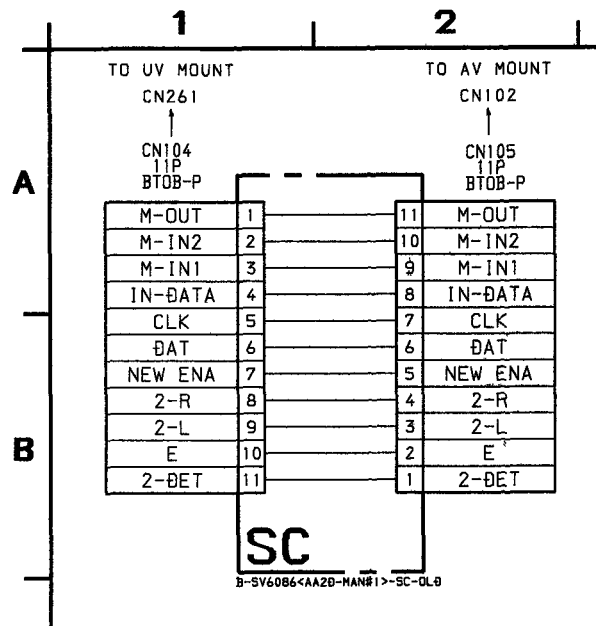


A  
B  
C  
D  
E  
F

1 2 3 4 5 6 7 8 9 10 11



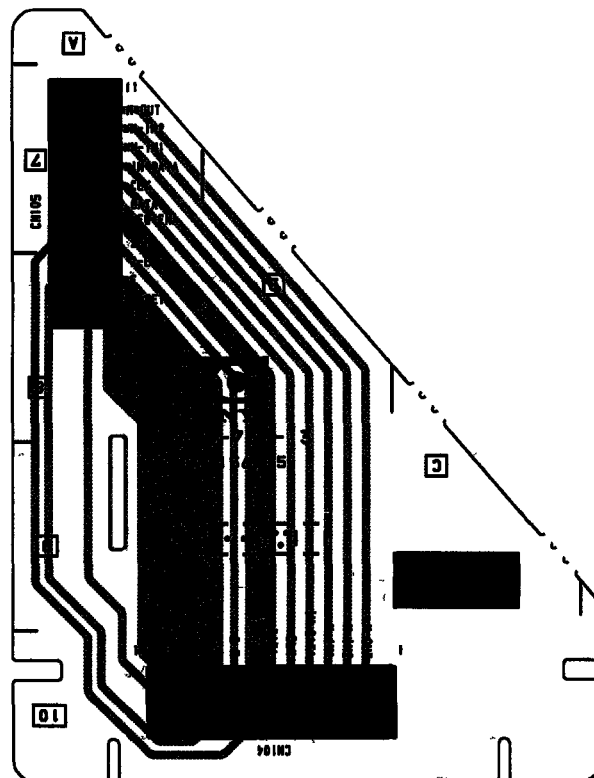
B-SV6086<AA20-MAN#1>-P-OL0



**SC**

(KV-29V36K/29V76T/  
34V36K/37V36T)

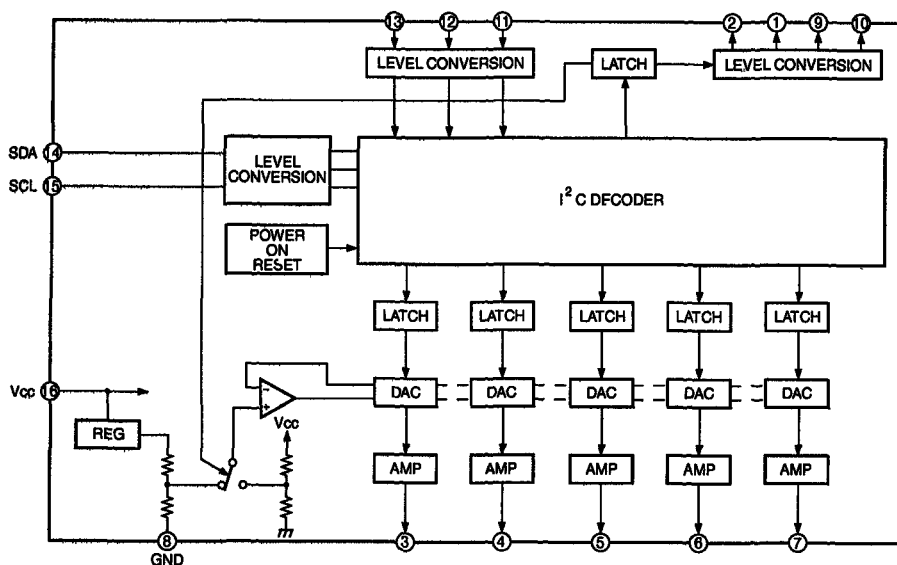
— SC BOARD —



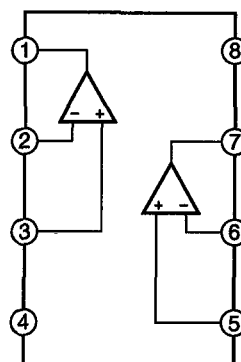
### Schematic diagrams

← **P SC** boards **A** board →

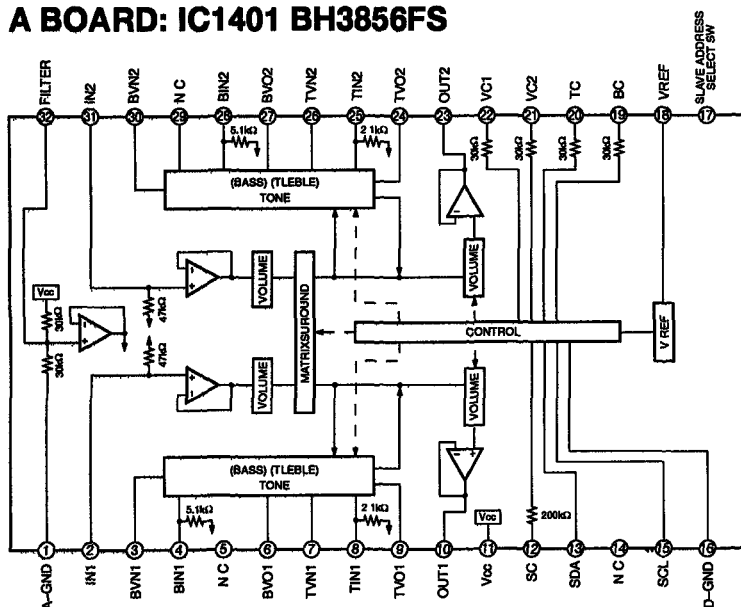
## A BOARD: IC1001 CXA1315M



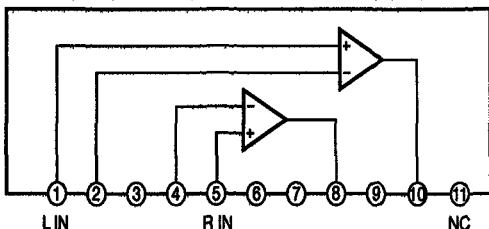
## A BOARD: IC1402 NJM4558M



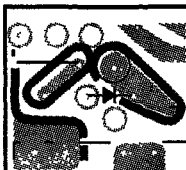
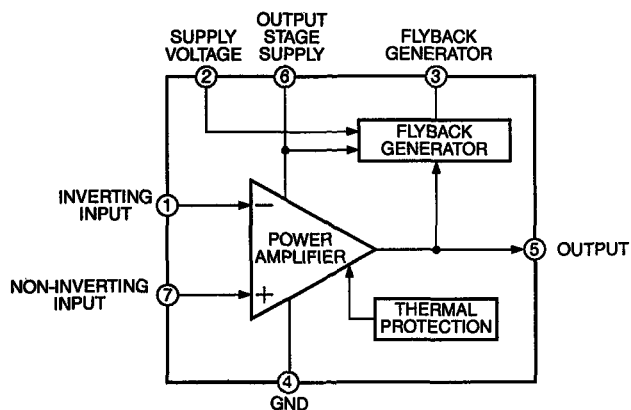
## A BOARD: IC1401 BH3856FS



## A BOARD: IC461 TDA2009A



## A BOARD: IC561 TDA 8172 / STV9379



**NOTE**  
Portions of the circuit marked as shown are high voltage areas. Use care to prevent electric shocks during inspection or repair.

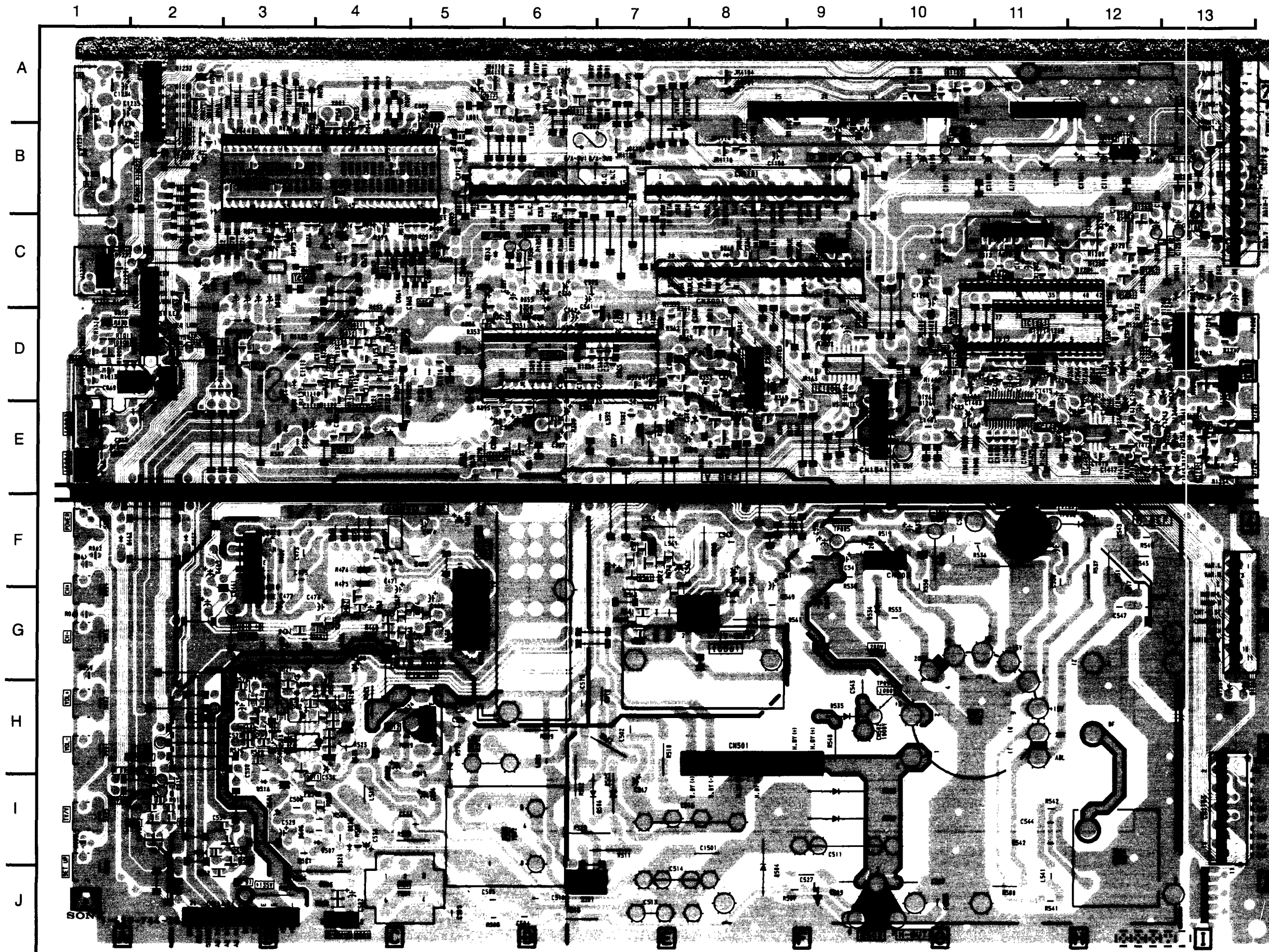
# **A BOARD LOCATOR LIST**

**A**

[MICON, Y/C/J, TUNER, VOL-CTL, AUDIO-AMP,  
PIN-MOD, V.DEF, H.DEF, AV-SW ]  
(KV-37V36T)

— A BOARD —

DIODE	
D001	A-6
D002	D-3
D003	A-6
D004	C-3
D011	A-5
D013	C-5
D014	D-3
D015	C-4
D353	D-8
D356	E-3
D360	E-7
D362	E-8
D368	C-8
D462	F-1
D501	I-3
D502	I-9
D503	I-9
D504	J-8
D505	I-7
D506	I-6
D507	I-3
D515	H-5
D516	I-3
D518	I-4
D519	F-9
D520	H-3
D521	G-3
D530	F-10
D531	F-12
D534	G-9
D535	H-9
D561	G-8
D562	G-3
D1102	B-10
D1103	B-12
D1248	E-12
D1263	D-10
D1264	E-10
IC	
IC001	B-4
IC002	C-3
IC351	D-6
IC461	G-5
IC501	H-3
IC561	G-8
IC1001	D-9
IC1401	E-11
IC1402	E-12
TRANSISTOR	
Q001	A-6
Q002	C-5
Q003	I-2
Q004	I-1
Q010	D-4
Q011	D-4
Q012	D-4
Q013	E-4
Q014	D-4
Q015	D-4
Q016	D-3
Q017	A-5
Q301	D-8
Q302	D-8
Q303	D-8
Q354	E-8
Q356	C-5
Q357	E-5
Q358	E-8
Q461	G-3
Q462	G-4
Q501	J-4
Q502	J-9
Q511	H-3
Q512	H-5
Q551	I-2
Q552	I-2
Q561	F-7
Q562	F-7
Q563	H-2
Q1102	B-12
Q1103	A-10
Q1231	E-13
Q1232	E-13





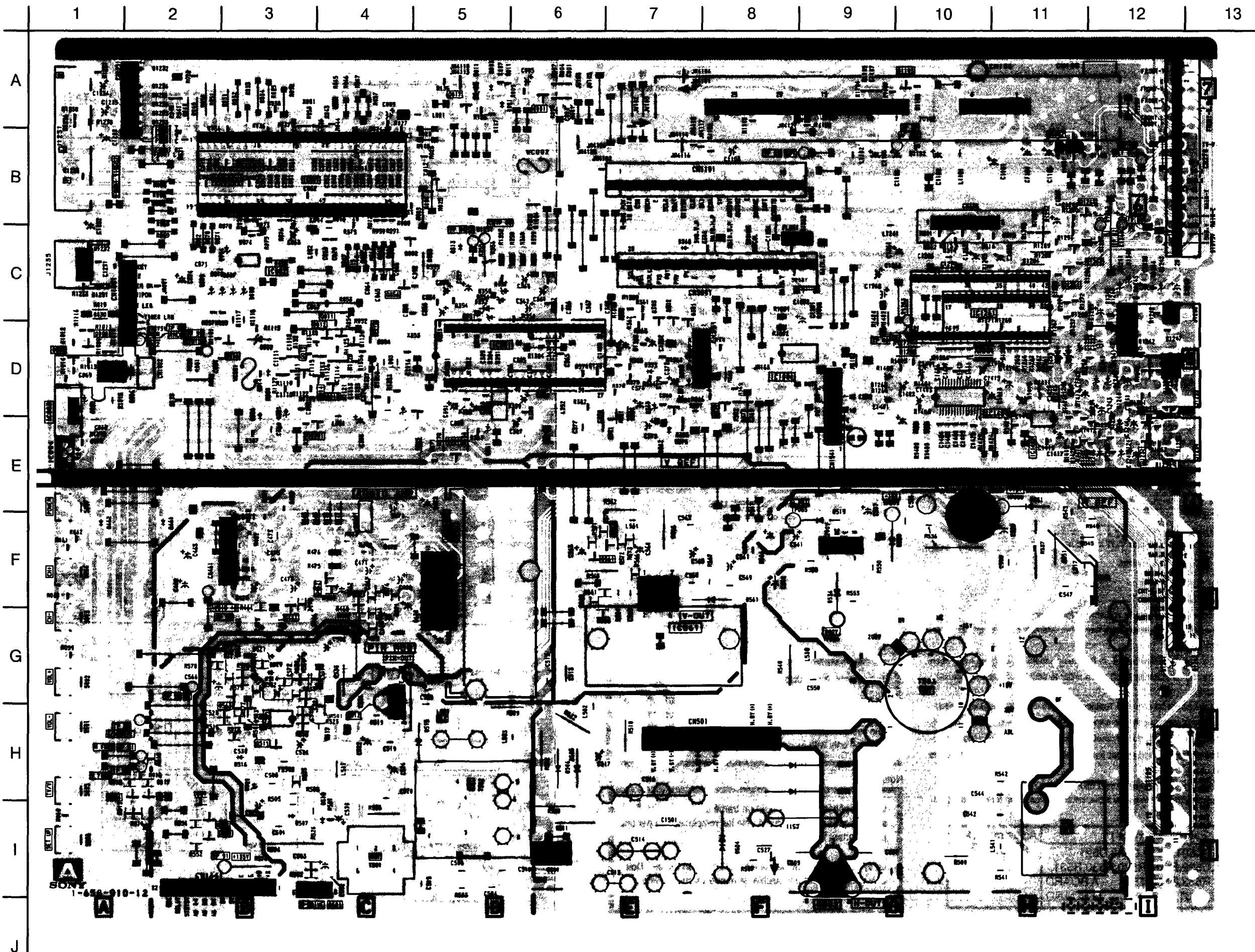
A

[MICON, Y/C/J, TUNER, VOL-CTL, AUDIO-AMP,  
PIN-MOD, V.DEF, H.DEF, AV-SW]  
(KV-27V22/29V22T/29V36K/29V76T/34V36K)

— A BOARD —

A BOARD  
LOCATOR LIST

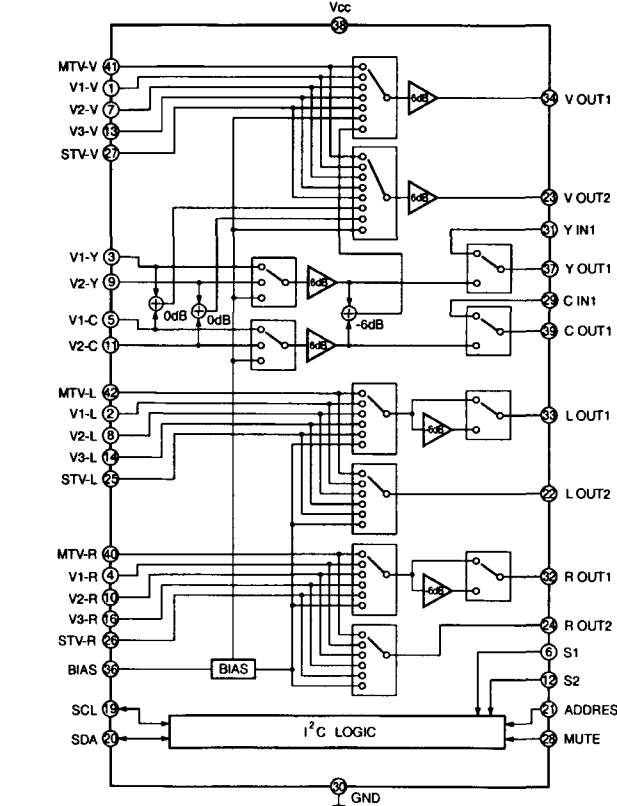
DIODE	
D001	A-5
D002	D-3
D003	A-5
D004	C-2
D011	A-5
D013	C-5
D014	D-3
D015	C-4
D353	D-7
D356	E-3
D360	E-7
D362	E-7
D368	C-7
D462	F-1
D501	H-3
D502	H-9
D503	H-9
D504	I-8
D505	H-6
D506	H-6
D507	I-3
D515	H-5
D516	H-3
D518	I-4
D519	F-9
D520	G-3
D521	G-3
D530	F-9
D531	E-11
D534	F-9
D561	F-8
D562	G-3
D1102	B-10
D1103	B-12
D1248	E-12
D1263	D-9
D1264	E-11
IC	
IC001	B-4
IC002	C-3
IC351	D-5
IC461	F-5
IC501	H-3
IC561	G-7
IC1001	D-8
IC1401	D-10
IC1402	E-11
TRANSISTOR	
Q001	A-5
Q002	C-4
Q003	H-2
Q004	H-1
Q010	D-4
Q011	D-3
Q012	D-3
Q013	D-4
Q014	D-3
Q015	D-3
Q016	D-3
Q017	A-5
Q301	C-7
Q302	C-7
Q303	C-7
Q354	D-7
Q356	C-4
Q357	E-5
Q358	D-8
Q461	G-3
Q462	F-3
Q501	J-4
Q502	J-9
Q511	H-3
Q512	H-4
Q551	I-2
Q552	I-2
Q561	F-6
Q562	F-6
Q563	H-2
Q1102	A-11
Q1103	A-10
Q1231	E-12
Q1232	E-12







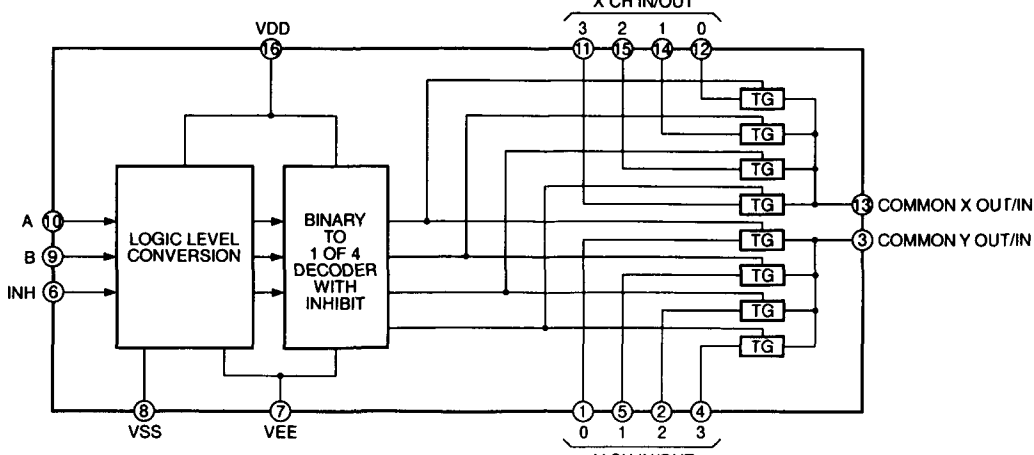
UV BOARD IC261 MM1313AD  
(KV-29V36K/29V76T/34V36K/37V36T)



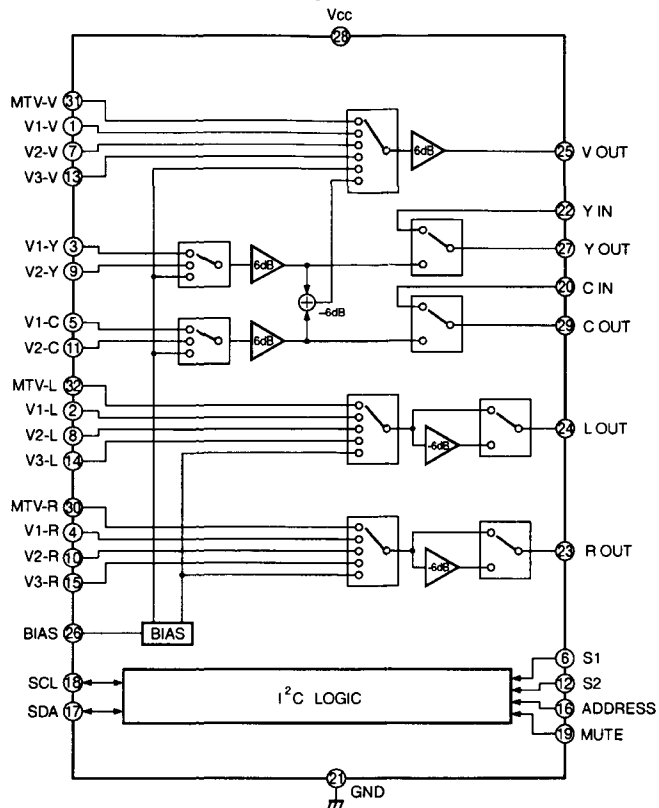
UV BOARD* MARK LIST	KV-29V22T/27V22	KV-37V36T	KV-29V76T/29V36K	KV-34V36K
C236	#	0 047	0 047	0 047
C237	#	1	1	1
C238	#	1	1	1
C245	#	470 25V	470 25V	470 25V
C246	#	0 47	0 47	0 47
C247	#	0 47	0 47	0 47
C261	#	0 047	0 047	0 047
C264	100 16V	470 25V	470 25V	470 25V
C265	47 16V	47 25V	47 25V	47 25V
C266	#	1	1	1
C267	#	1	1	1
C301	100 16V	470 16V	470 16V	470 16V
C302	#	470 16V	#	470 16V
CM301	1-473-548-11	#	1-467-554-21	#
CM302	#	1-467-556-11	#	1-467-556-11
CM261	#	11P	11P	11P
CM263	#	3P	3P	3P
D239	#	#	MTJZ-T-77-3 3	MTJZ-T-77-3 3
D240	#	RD10ES-T1B	RD10ES-T1B	RD10ES-T1B
D241	#	RD10ES-T1B	RD10ES-T1B	RD10ES-T1B
D242	#	RD10ES-T1B	RD10ES-T1B	RD10ES-T1B
D243	#	RD10ES-T1B	RD10ES-T1B	RD10ES-T1B
D244	#	MTJZ-T-77-3 3	MTJZ-T-77-3 3	MTJZ-T-77-3 3
D246	#	MTJZ-T-77-3 3	MTJZ-T-77-3 3	MTJZ-T-77-3 3
D602	#	MTJZ-T-77-6 2	MTJZ-T-77-6 2	MTJZ-T-77-6 2
IC261	MM1313AD	MM1313AD	MM1313AD	MM1313AD
J232	#	1-750-517-11 3P	1-750-517-11 3P	1-750-517-11 3P
J233	1-774-747-11 2P	1-750-516-11 2P	1-750-516-11 2P	1-750-516-11 2P
J234	1-774-746-11 3P	1-750-517-11 3P	1-750-517-11 3P	1-750-517-11 3P
J235	#	1-750-517-11 3P	1-750-517-11 3P	1-750-517-11 3P
J902	#	SIRCS-JACK	SIRCS-JACK	SIRCS-JACK
J903	#	SIRCS-JACK	SIRCS-JACK	SIRCS-JACK
J904	#	SIRCS-JACK	SIRCS-JACK	SIRCS-JACK
JR233	0	#	#	#
Q232	#	#	2SD601A	2SD601A
Q235	#	#	2SD601A	2SD601A
Q236	#	#	2SD601A	2SD601A
Q240	#	#	2SB709A	2SB709A
Q241	#	#	2SB709A	2SB709A
Q242	#	#	2SB709A	2SB709A
Q261	#	2SD601A	2SD601A	2SD601A
R206	#	1K	1K	1K
R207	#	0	0	0
R208	#	1K	1K	1K
R209	#	6 8K	6 8K	6 8K
R210	#	6 8K	6 8K	6 8K
R219	#	4 7K	4 7K	4 7K
R220	#	4 7K	4 7K	4 7K
R221	#	470	470	470
R222	#	100	100	100
R223	#	100	100	100
R224	#	100	100	100
R239	#	75	75	75
R240	#	470K	470K	470K
R241	#	4 7K	4 7K	4 7K
R242	#	470K	470K	470K
R243	#	4 7K	4 7K	4 7K
R252	#	50	50	50
R253	#	470K	470K	470K
R254	#	470K	470K	470K
R255	#	470K	470K	470K
R258	#	6 8K	6 8K	6 8K
R266	#	560	560	560
R267	#	680	680	680
R275	#	4 7K	4 7K	4 7K
R276	#	4 7K	4 7K	4 7K
R278	#	470	470	470
R281	#	220	220	220
R289	#	100	100	100
R292	100	#	#	#
R293	#	100	100	100
R602	#	100	100	100
R919	#	0	0	0
R920	#	100	100	100
R921	#	100	100	100
R922	#	1K	1K	1K
R923	#	1K	1K	1K
R924	#	1K	1K	1K
R925	#	3 3K	3 3K	3 3K
R926	#	3 3K	3 3K	3 3K

\* NOT MOUNTED

UV BOARD: IC154 CD4052BCN



UV BOARD IC261MM1311AD  
(KV-27V22/29V22T)



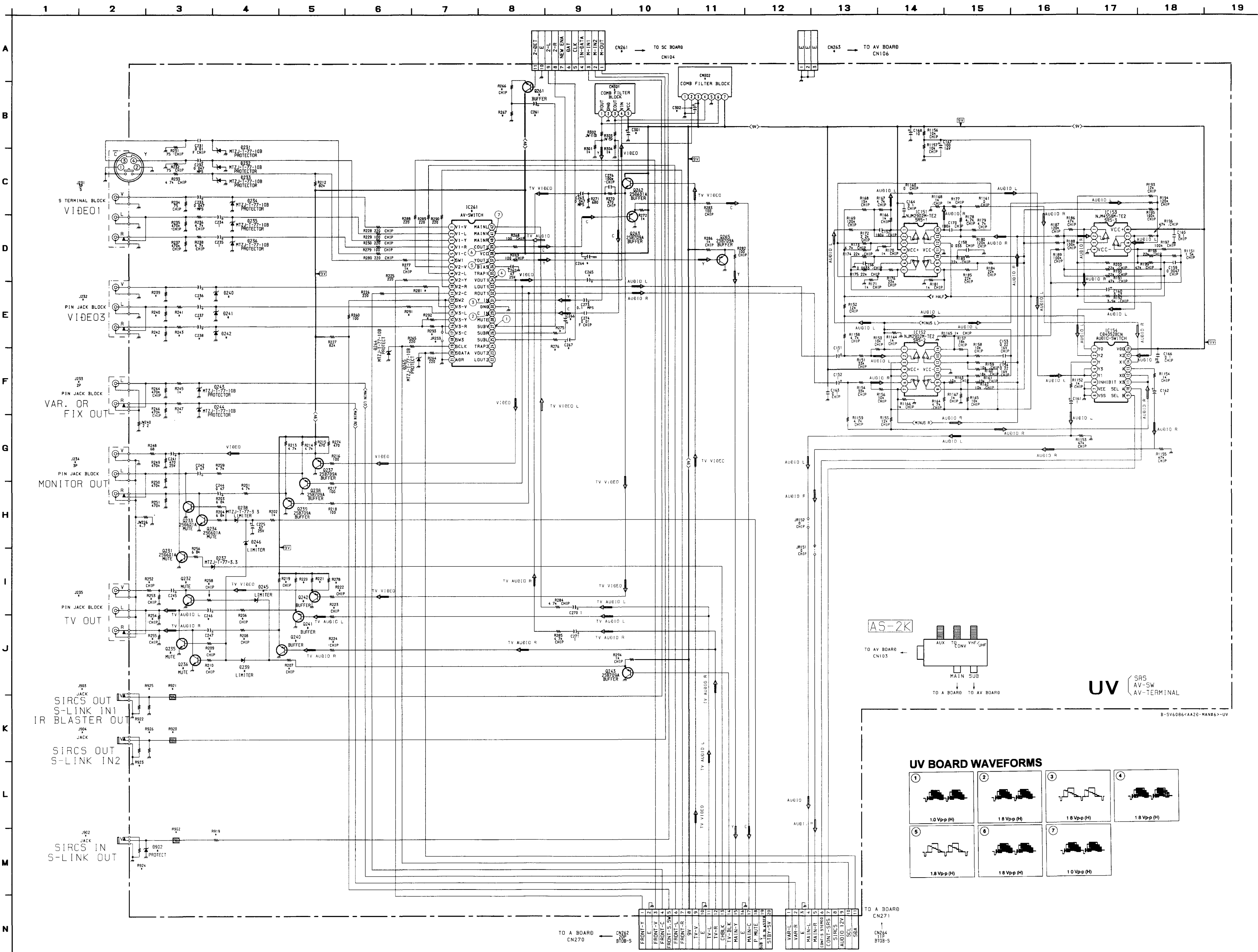
UV BOARD IC VOLTAGE LIST

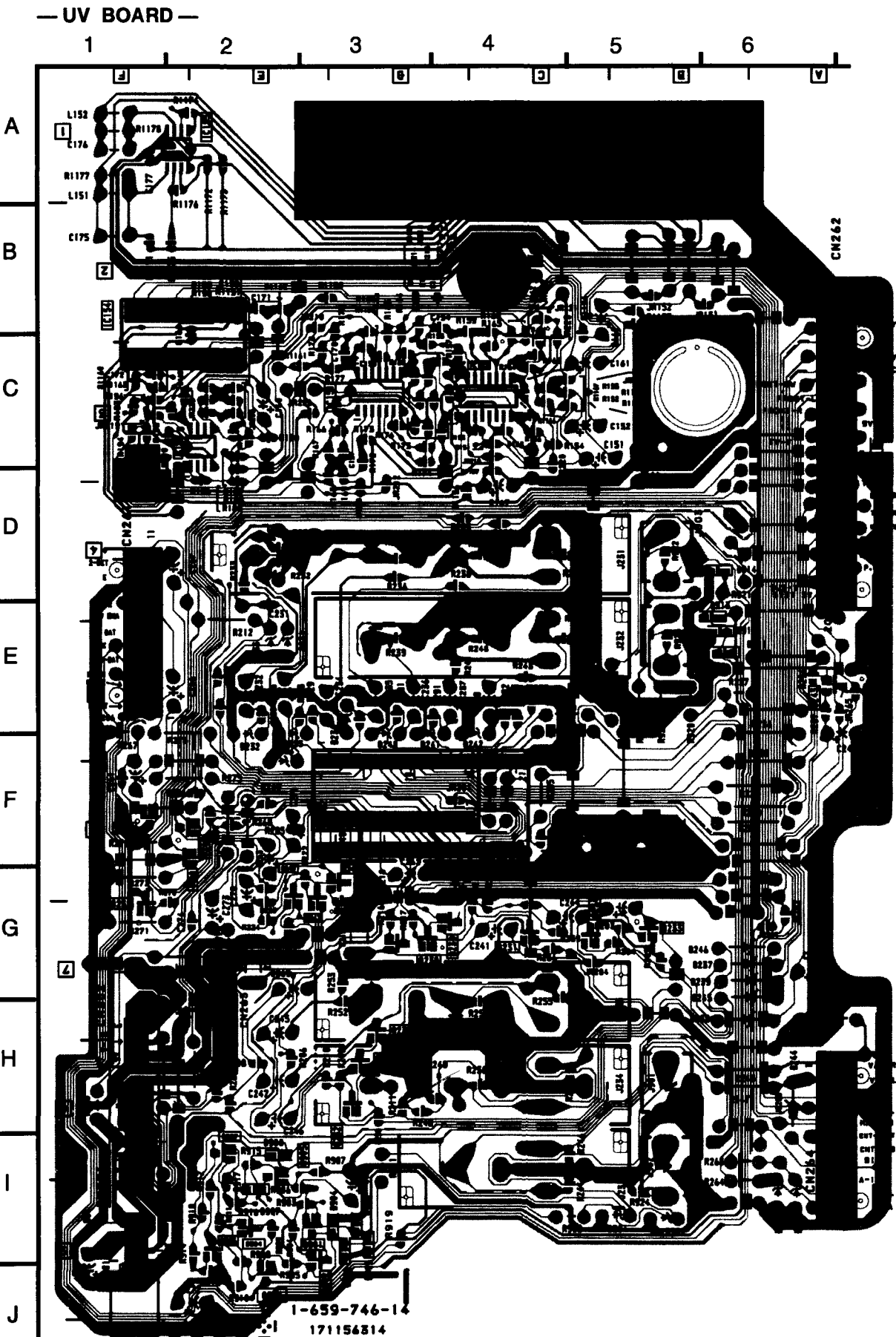
IC151	pin	volt	pin	volt
	1	4.4	12	4.4
	2	4.4	13	4.4
	3	4.4	14	4.4
	4	8.7	15	4.4
	5	4.4	16	8.7
	6	4.4	17	4.8
	7	4.4	18	4.2
	8	4.4	19	4.8
	9	4.4	20	4.2
	10	4.4	21	4.8
	11	GND	22	4.5
	12	4.4	23	4.2
	13	4.4	24	4.2
	14	4.4	25	4.8
	15	4.4	26	4.5
	16	4.4	27	4.2
	17	4.4	28	4.2
	18	4.4	29	4.2
	19	4.4	30	4.2
	20	4.4	31	4.2
	21	4.4	32	4.2
	22	4.4	33	4.2
	23	4.4	34	4.2
	24	4.4	35	4.2
	25	4.4	36	4.2
	26	4.4	37	4.2
	27	4.4	38	4.2
	28	4.4	39	4.2
	29	4.4	40	4.2
	30	4.4	41	4.2
	31	4.4	42	4.2
	32	4.4	43	4.2
	33	4.4	44	4.2
	34	4.4	45	4.2
	35	4.4	46	4.2
	36	4.4	47	4.2
	37	4.4	48	4.2
	38	4.4	49	4.2
	39	4.4	50	4.2
	40	4.4	51	4.2
	41	4.4	52	4.2
	42	4.4	53	4.2
	43	4.4	54	4.2
	44	4.4	55	4.2
	45	4.4	56	4.2
	46	4.4	57	4.2
	47	4.4	58	4.2
	48	4.4	59	4.2
	49	4.4	60	4.2
	50	4.4	61	4.2
	51	4.4	62	4.2
	52	4.4	63	4.2
	53	4.4	64	4.2
	54	4.4	65	4.2
	55	4.4	66	4.2
	56	4.4	67	4.2
	57	4.4	68	4.2
	58	4.4	69	4.2
	59	4.4	70	4.2
	60	4.4	71	4.2
	61	4.4	72	4.2
	62	4.4	73	4.2
	63	4.4	74	4.2
	64	4.4	75	4.2
	65	4.4	76	4.2
	66	4.4	77	4.2
	67	4.4	78	4.2
	68	4.4	79	4.2
	69	4.4	80	4.2
	70	4.4	81	4.2
	71	4.4	82	4.2
	72	4.4	83	4.2
	73	4.4	84	4.2
	74	4.4	85	4.2
	75	4.4	86	4.2
	76	4.4	87	4.2
	77	4.4	88	4.2
	78	4.4	89	4.2
	79	4.4	90	4.2
	80	4.4	91	4.2
	81	4.4	92	4.2
	82	4.4	93	4.2
	83	4.4	94	4.2
	84	4.4	95	4.2
	85	4.4	96	4.2
	86	4.4	97	4.2
	87	4.4	98	4.2
	88	4.4	99	4.2
	89	4.4	100	4.2

UV BOARD TRANSISTOR VOLTAGE LIST

Q231	B	C	E
Q232	0.2	4.9	GND
Q233	0	0	GND
Q234	0	0	GND
Q235	0	0	GND
Q236	0	0	GND
Q237	5.0	GND	5.7
Q238	4.1	GND	4.7
Q239	4.1	GND	4.7
Q240	4.4	GND	5.0
Q241	4.4	GND	5.0
Q242	4.3	GND	4.9
Q243	0.2	GND	0.9
Q281	4.6	8.7	4.0
Q262	4.9	5.7	4.2
Q263	3.4	GND	4.1
Q265	4.3	GND	4.9

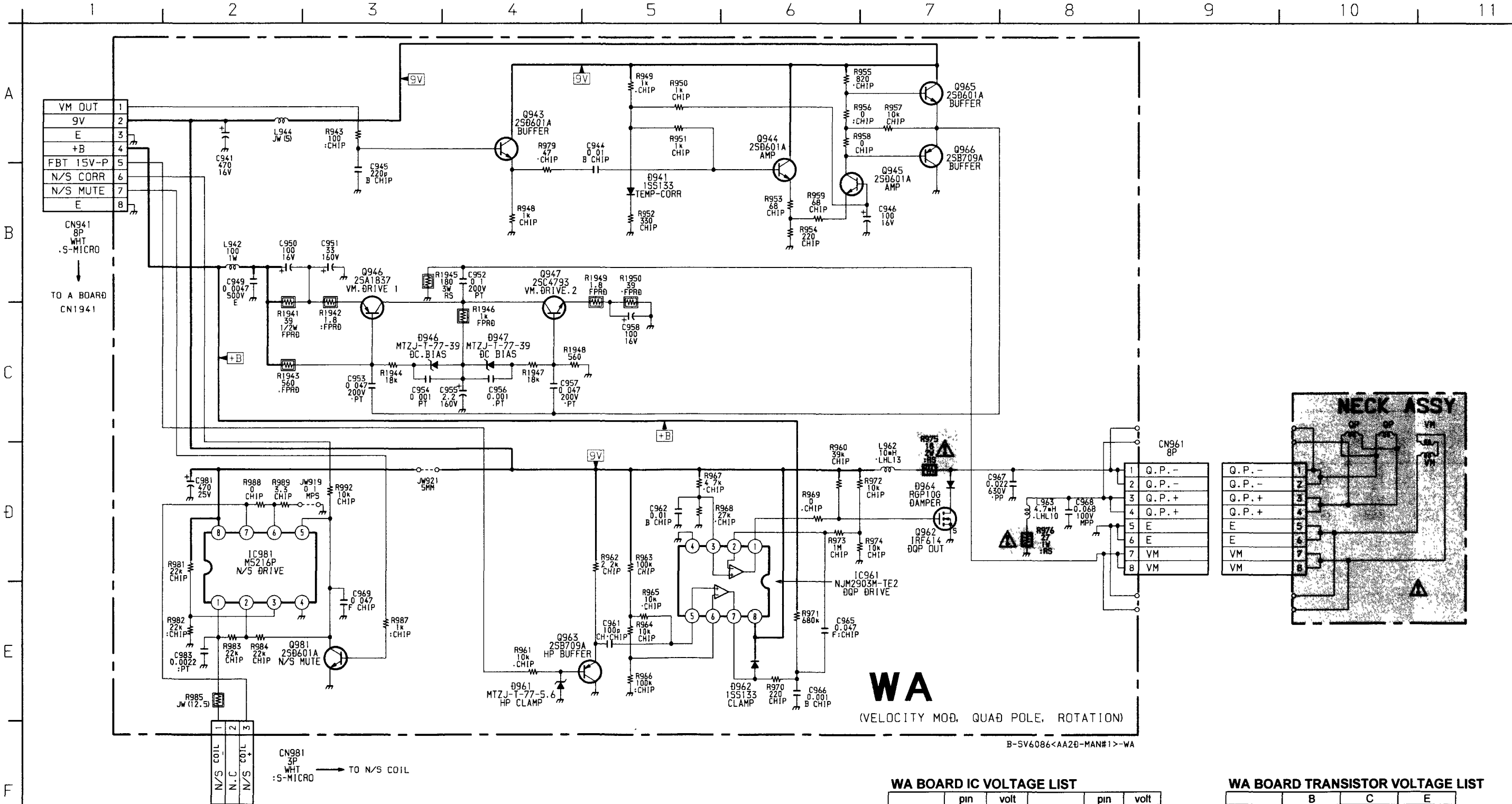
All voltages are in V





UV BOARD

DIODE	
D231	E-2
D232	E-2
D233	E-2
D234	F-2
D235	E-2
D236	E-3
D237	G-6
D238	G-6
D239	G-6
D240	E-3
D241	E-3
D242	E-4
D243	G-6
D244	H-6
D245	G-6
D246	G-6
D264	I-6
D265	I-6
D902	I-5
IC	
IC151	C-3
IC152	C-4
IC153	C-2
IC154	C-2
IC261	F-4
TRANSISTOR	
Q231	G-4
Q232	H-3
Q233	G-5
Q234	G-5
Q235	H-3
Q236	H-3
Q237	G-3
Q238	G-3
Q239	G-4
Q240	G-2
Q241	G-3
Q242	G-3
Q243	E-6
Q261	F-1
Q262	G-1
Q263	F-2
Q265	F-2



WA

(VELOCITY MOD., QUAD POLE, ROTATION)

WA BOARD IC VOLTAGE LIST

IC961		IC981	
pin	volt	pin	volt
1	4.3	1	4.8
2	4.1	2	4.5
3	7.5	3	4.4
4	GND	4	GND
5	4.6	5	4.1
6	4.2	6	4.1
7	4.4	7	4.1
8	8.7	8	8.7

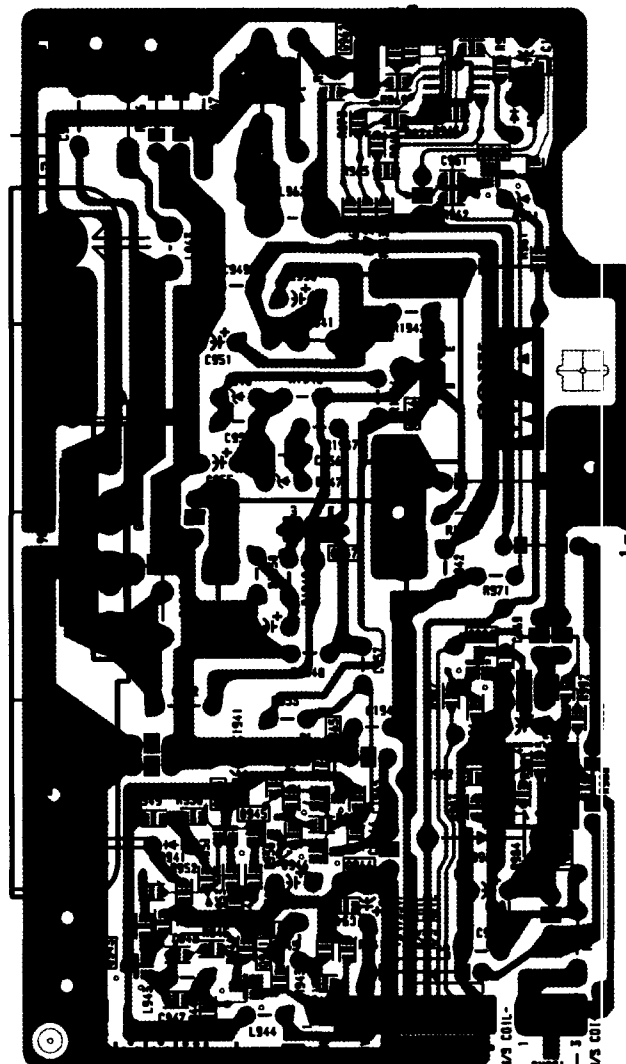
All voltages are in V

WA BOARD TRANSISTOR VOLTAGE LIST

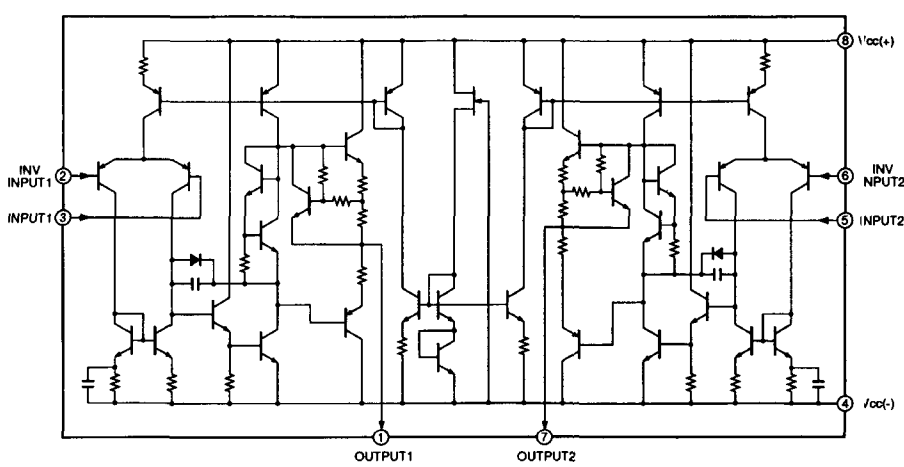
	B	C	E
Q943	3	8.7	2.4
Q944	2.7	8.7	2.1
Q945	2.7	5.5	2.1
Q946	134	65.7	134.6
Q947	0.9	65.7	0.5
Q963	4.6	GND	5.3
Q965	5.5	8.7	5.5
Q966	5.5	GND	5.5
Q981	0	4.1	GND
	G	D	S
Q962	4.3	9.8	GND

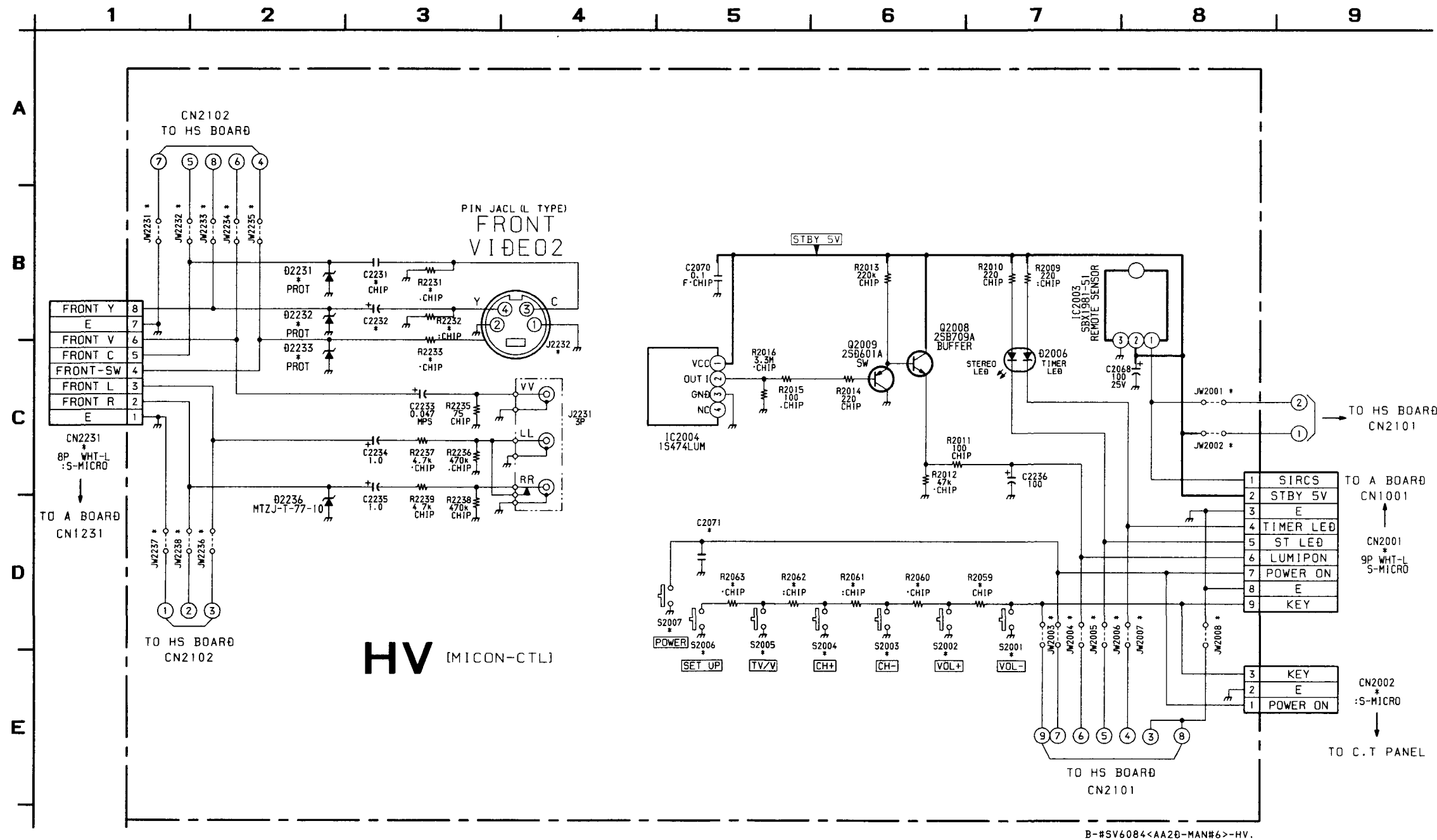
All voltages are in V

WA BOARD



WA BOARD: IC981 M5216P

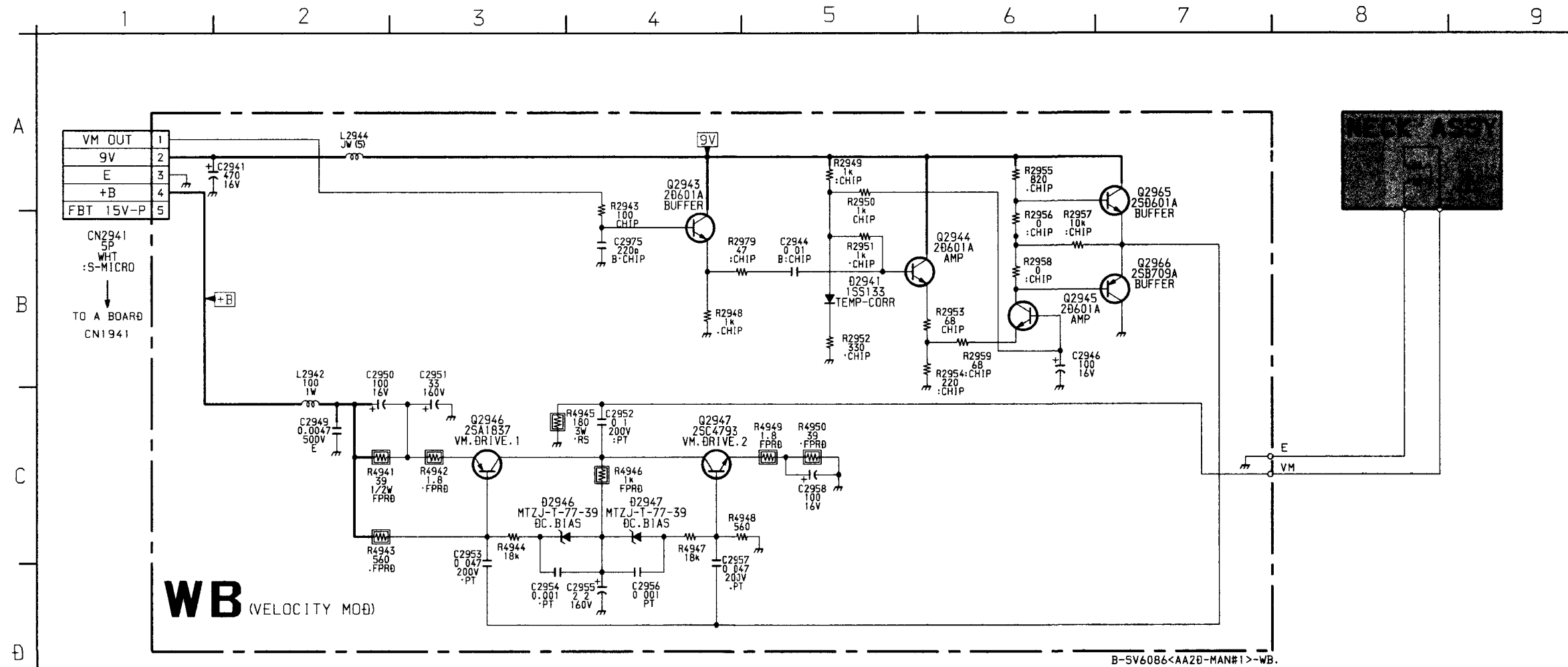




HV BOARD \* MARK LIST

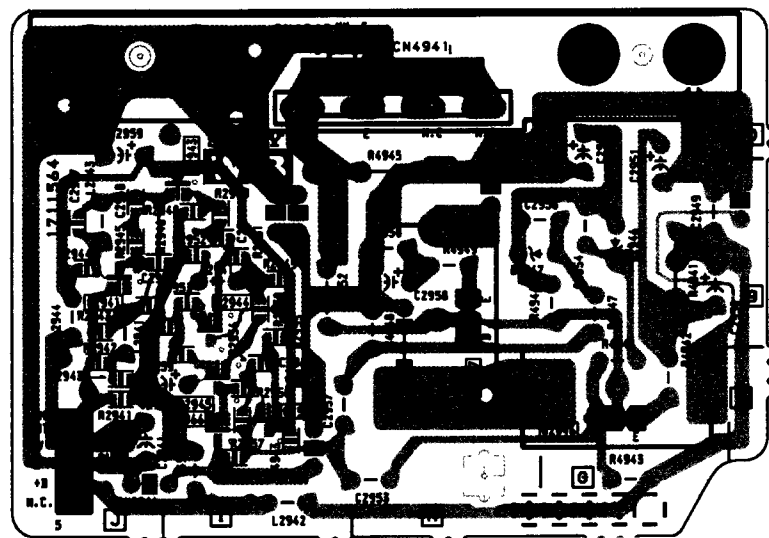
	KV-27V22/ 29V22T	KV-29V36K/ 29V76T	KV-37V36T/ 34V36K
C2071	#	0.47	#
C2231	#	#	0.01
C2232	#	#	0.047
CN2001	9P	9P	#
CN2002	#	3P	3P
CN2231	#	8P	#
D2231	8P	#	MTZJ-T-77-10
D2232	#	#	MTZJ-T-77-10
D2233	#	#	MTZJ-T-77-10
J2232	#	#	20MM
JW2001	#	#	20MM
JW2002	#	#	20MM
JW2003	#	#	20MM
JW2004	#	#	20MM
JW2005	#	#	20MM
JW2006	#	#	20MM
JW2007	#	#	20MM
JW2008	#	#	20MM
JW2009	#	#	20MM
JW2231	#	#	20MM
JW2232	#	#	20MM
JW2233	#	#	20MM
JW2234	#	#	20MM
JW2235	#	#	20MM
JW2236	#	#	20MM
JW2237	#	#	20MM
JW2238	#	#	20MM
R2059	820	#	#
R2060	1K	#	#
R2061	1.8K	#	#
R2062	4.7K	#	#
R2063	10K	#	#
R2231	#	#	75
R2232	#	#	75
R2233	#	#	4.7K
S2001	TACTILE-SW	#	#
S2002	TACTILE-SW	#	#
S2003	TACTILE-SW	#	#
S2004	TACTILE-SW	#	#
S2005	TACTILE-SW	#	#
S2006	TACTILE-SW	#	#
S2007	TACTILE-SW	#	#

#NOT MOUNTED



WB [VELOCITY MOD.]  
(KV-29V36K/29V76T/34V36K)

— WB BOARD —



WB BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q2943	3.1	9.0	2.4
Q2944	2.7	9.0	2.1
Q2945	2.8	5.8	2.1
Q2946	134.0	67.4	135.0
Q2947	1.8	67.4	0.5
Q2965	5.8	9.0	5.9
Q2966	5.8	GND	5.9

All voltages are in V

HV BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q2008	4.5	5.0	1.5
Q2009	0.4	GND	4.5

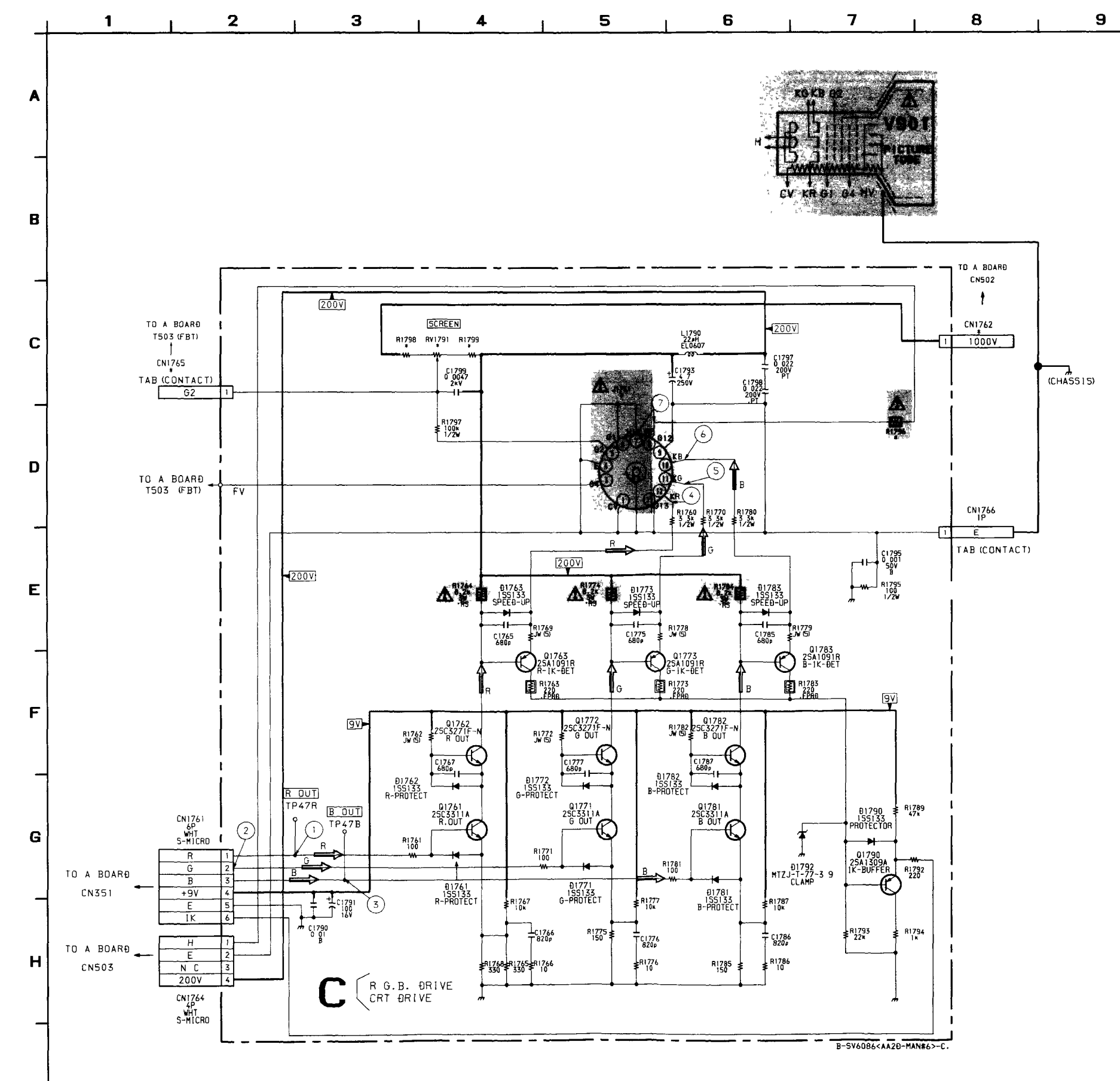
All voltages are in V

HV BOARD IC VOLTAGE LIST

	pin	volt
IC2003	1	5.0
	2	5.0
	3	GND
IC2004	1	5.0
	2	0.5
	3	GND
	4	NC

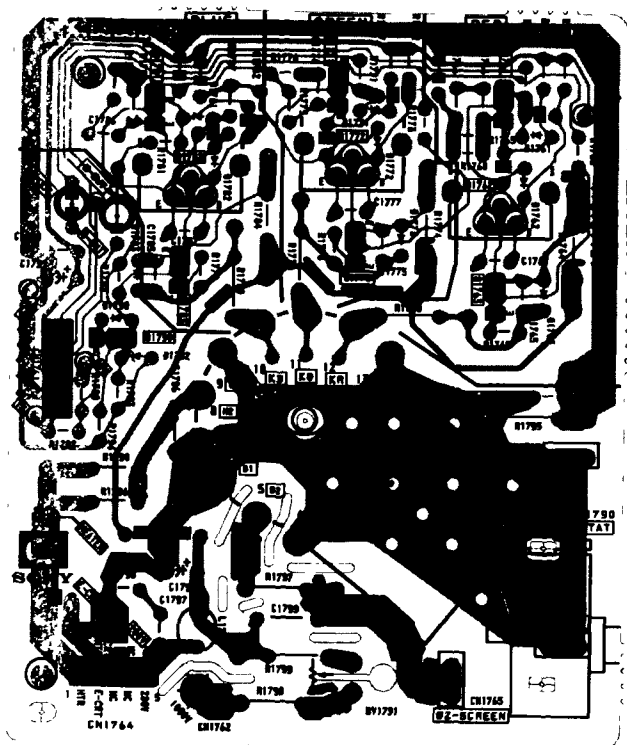
All voltages are in V



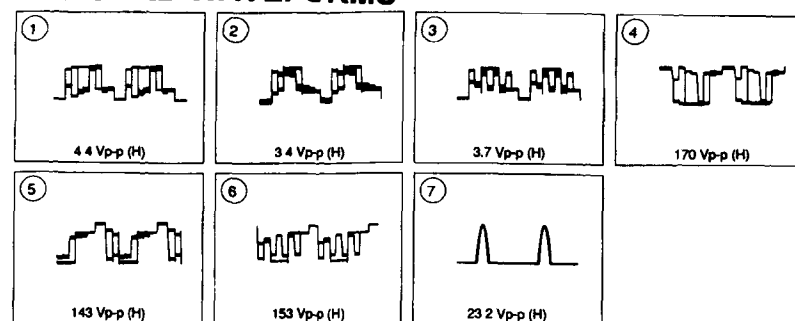


**C** [R, G, B DRIVE, CRT DRIVE]

— C BOARD —



**C BOARD WAVEFORMS**



**C BOARD TRANSISTOR VOLTAGE LIST**

	B	C	E
Q1761	2.2	8.2	1.7
Q1762	8.7	134.1	8.2
Q1763	134.1	2.3	132.0
Q1771	1.8	8.2	1.3
Q1772	8.7	146.4	8.2
Q1773	146.4	2.3	144.1
Q1781	2.1	8.2	1.6
Q1782	8.7	133.7	9.2
Q1783	133.7	2.3	131.5
Q1790	2.2	0.2	2.5

All voltages are in V

**C BOARD MARK LIST**

	KV-27V22/29V22T/ 29V76T/29V36K/34V36K	KV-37V36T
CN1762	#	1P
CN1765	TAB	#
J1761	1-251-388-11	1-251-328-11
R1796	2.7 / 2W	0.47 / 2W
R1798	#	680K / .5W
R1799	#	100K / .5W
RV1791	#	2.2M / .5W

**G BOARD TRANSISTOR VOLTAGE LIST**

	B	C	E
Q601	145.2	294.0	147.5
Q602	-1.7	147.5	GND
Q644	-0.3	10.5	GND
Q645	7.0	GND	7.6
Q646	4.8	7.4	4.8

All voltages are in V

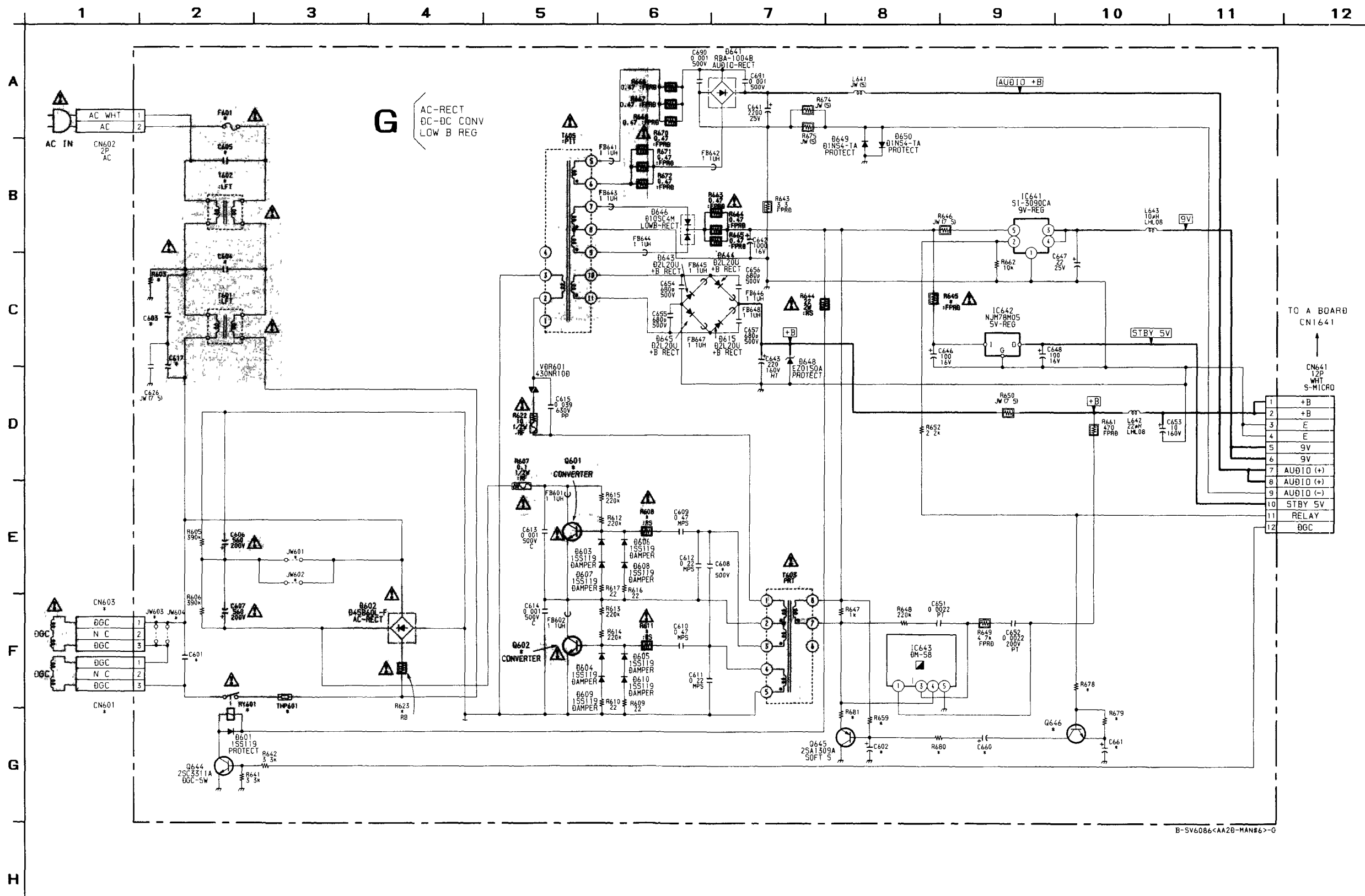
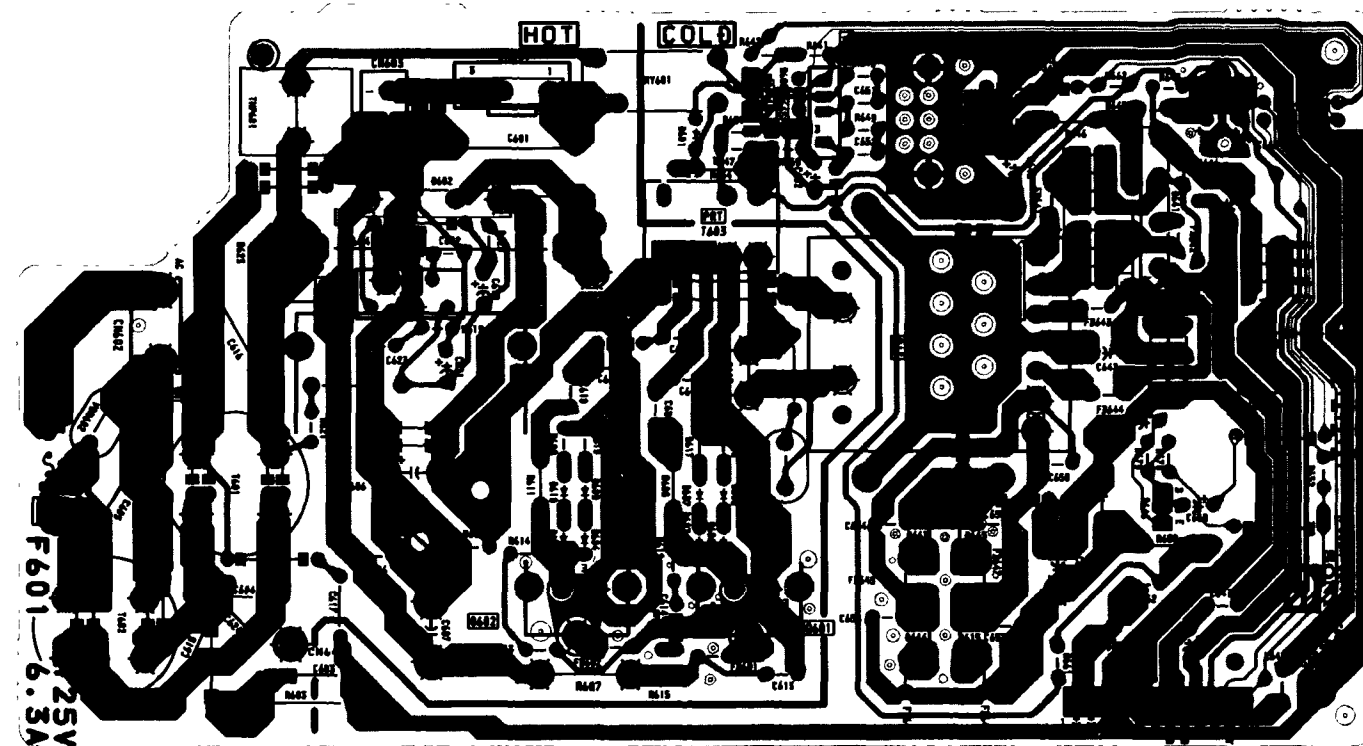
**G BOARD IC VOLTAGE LIST**

	pin	volt
IC641	1	GND
	2	3.9
	3	8.9
	4	8.9
	5	10.5
IC642	IN	9.5
	OUT	5.0
	5	GND
IC643	1	135
	2	NC
	3	2.5
	4	7.8
	5	GND

All voltages are in V

**G** [AC-RECT, DC-DC CONV., LOW B REG]

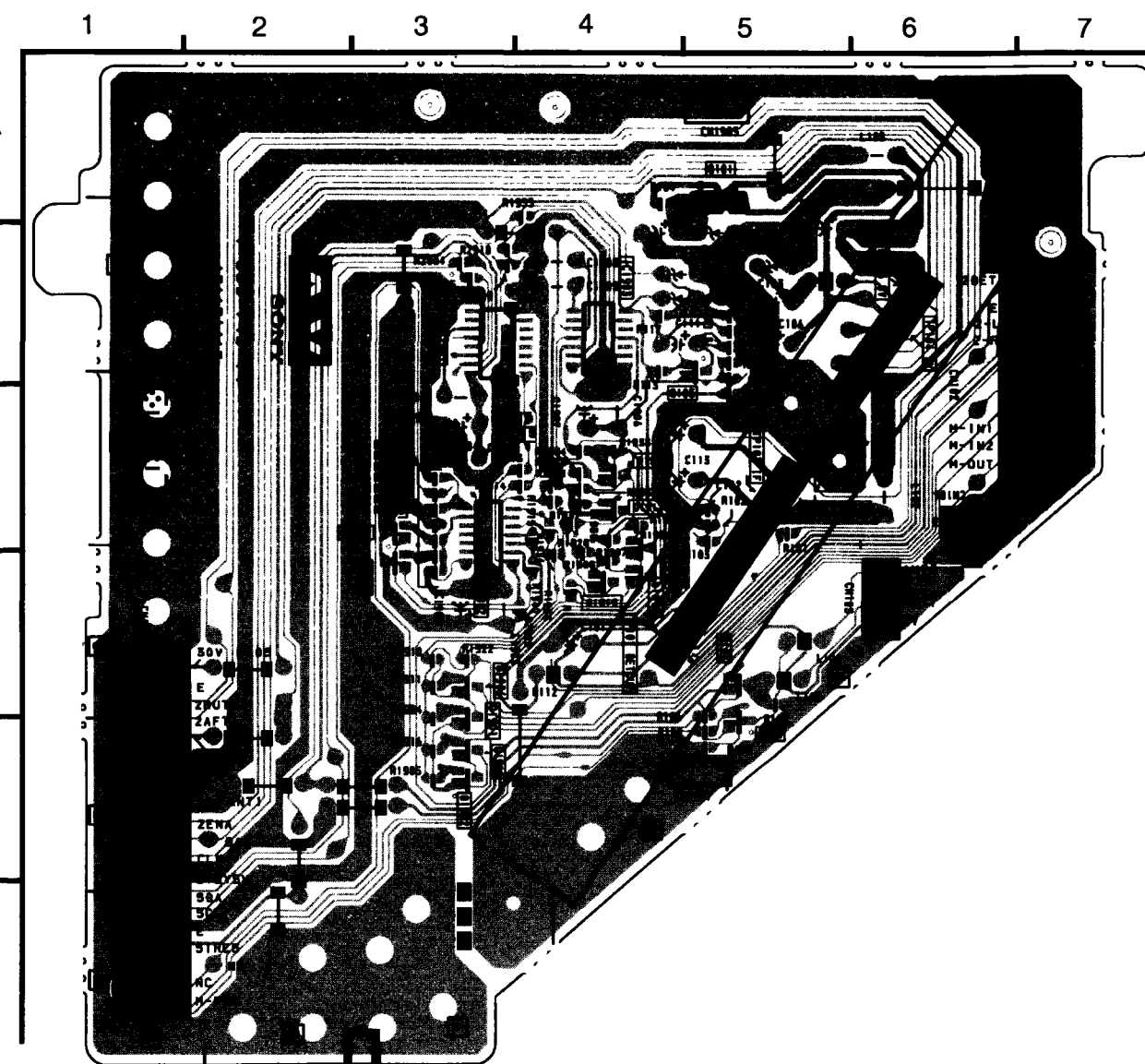
— G BOARD —



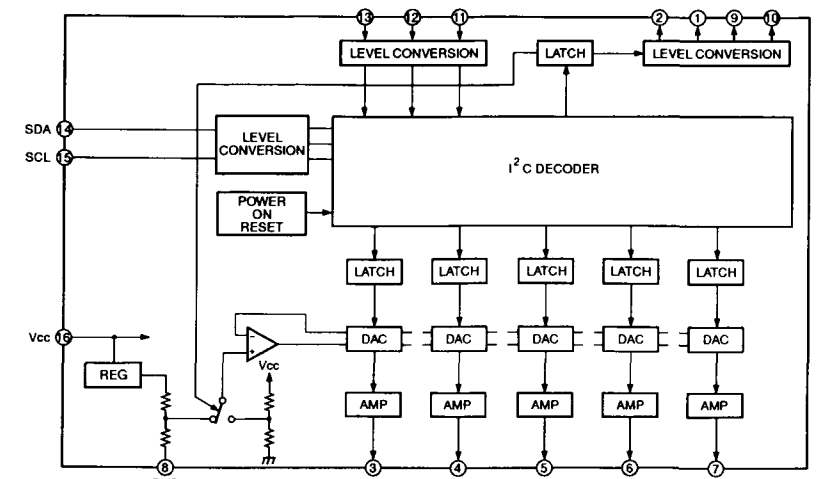
**G BOARD MARK LIST**

	KV-27V22	KV-29V36K/34V36K	KV-29V22T/29V76T	KV-37V36T
C601	#	#	#	.22 250V
C602	#	4.7	#	#
C603	1000P 250V	1000P	1000P	1000
C604	.22 125V	.22 300V	.22 125V	.22 125V
C605	.22 125V	0.47	0.47	0.47
C608	680P 500V	1000P 500V	680P 500V	680P 500V
C617	1000P 250V	1000P	1000P	1000P
C660	JW(5)	#	JW(5)	JW(5)
C661	4.7	#	4.7	4.7
CN601	1-508-765-00	1-508-765-00	1-508-765-00	1-573-963-11
CN603	#	#	#	1-573-963-11
F601	6.3A 125V	6.3A 250V	6.3A 125V	6.3A 125V
JW601	5MM	#	5MM	5MM
JW602	5MM	#	5MM	5MM
JW603	5MM	5MM	5MM	#
JW604	5MM	5MM	5MM	#
Q601	2SC4834MNP	2SC4834NP	2SC4834MNP	2SC4834MNP
Q602	2SC4834MNP	2SC4834NP	2SC4834MNP	2SC4834MNP
Q646	2SC3311A	#	2SC3311A	2SC3311A
R603	2.2M 1/2W	8.2M 1W	2.2M 1/2W	2.2M 1/2W
R608	1.8 2W	1.2W	1.8 2W	1.8 2W
R611	1.8 2W	1.2W	1.8 2W	1.8 2W
R623	1.20W	3.9 20W	1.20W	1.20W
R645	JW(5)	10 1/2W	JW(5)	JW(5)
R659	#	10K	#	#
R678	22K	#	22K	22K
R679	22K	#	22K	22K
R680	10K	#	10K	10K
R681	150	JW(5)	150	150
RY601	1-755-146-11	1-755-018-11	1-755-146-11	1-755-146-11
T602	1-424-220-11	1-426-717-11	1-426-717-11	1-426-717-11
THP601	1-809-539-11	1-809-827-11	1-809-539-11	1-809-539-11

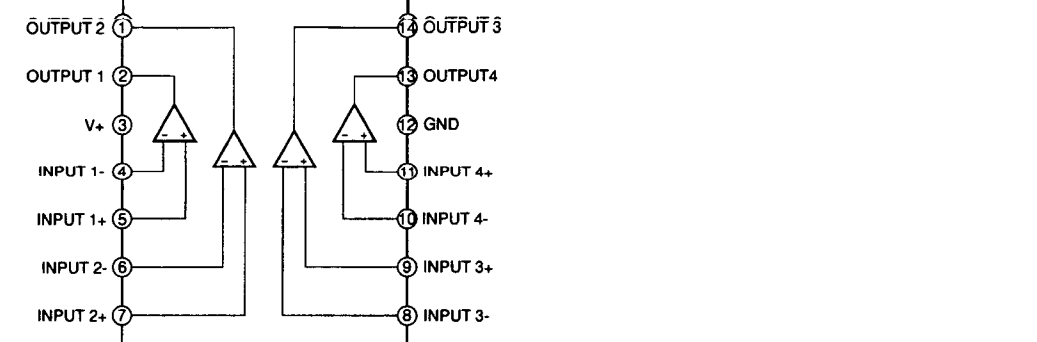
# NOT MOUNTED



AV BOARD	
DIODE	
D101	B-5
D103	B-4
D104	B-4
IC	
IC1901	B-3
IC1902	C-3
IC1903	B-4
TRANSISTOR	
Q101	A-5
Q103	D-5
Q104	D-5
Q105	B-4
Q1901	D-3
Q1902	E-3
Q1906	D-3
Q1908	E-3
Q1911	C-4
Q1912	C-4
Q1914	C-4
Q1916	C-3
Q1917	C-3



**AV BOARD: IC1902 NJM2901M**



### K BOARD IC VOLTAGE LIST

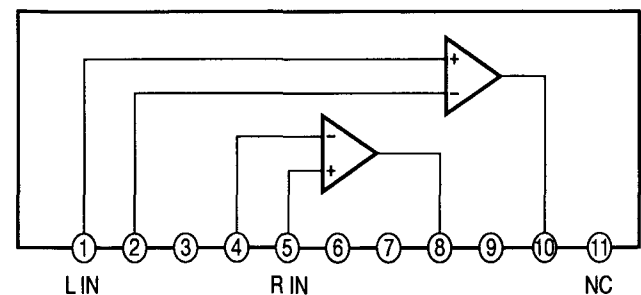
	pin	volt
IC1461	1	1.5
	2	4.2
	3	12.2
	4	4.5
	5	1.5
	6	GND
	7	NC
	8	0.2
	9	22.1
	10	0.2
	11	NC

All voltages are in V

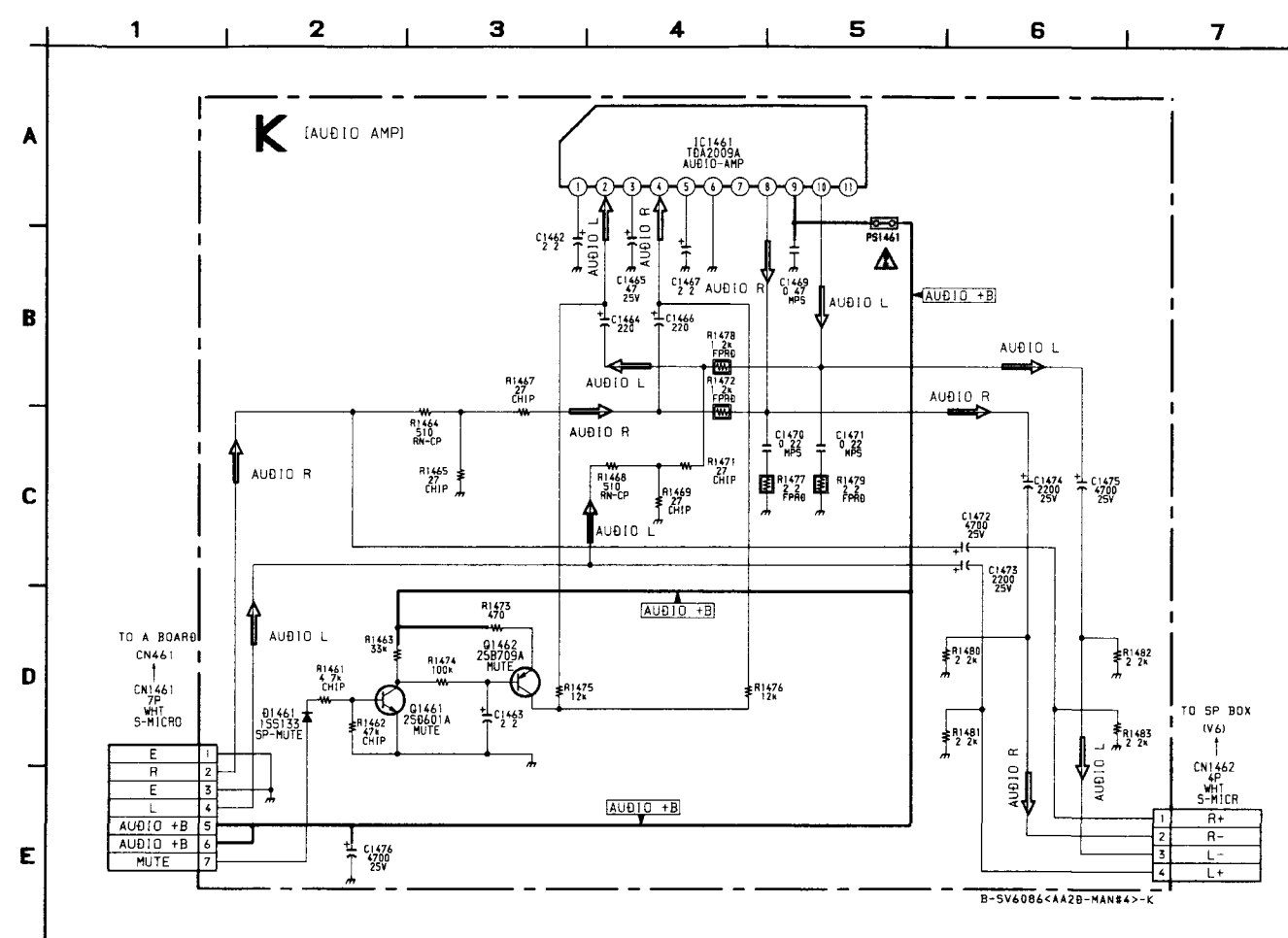
### K BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q1461	07	0	GND
Q1462	20 0	20 7	20 7

All voltages are in V

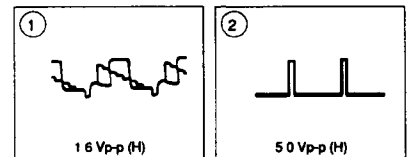


(KV-29V36K/29V76T/34V36K)



B-SV6086<AA20-MAN84>-K

## AV BOARD WAVEFORMS



### AV BOARD TRANSISTOR VOLTAGE LIST

	B	C	E
Q101	5.8	8.7	5.1
Q103	4.3	4.9	5.0
Q104	5.0	0	5.0
Q105	5.0	0.8	5.0
Q918	0	5	0
Q919	0.87	0	GND
Q1901	5.0	0	0
Q1902	5.0	0	0
Q1906	5.0	0	0
Q1908	5.0	0	0
Q1911	0	5.0	0
Q1912	0.7	0	GND
Q1914	4.9	0	5.0
Q1916	0.2	5.0	0
Q1917	0.2	5.0	0

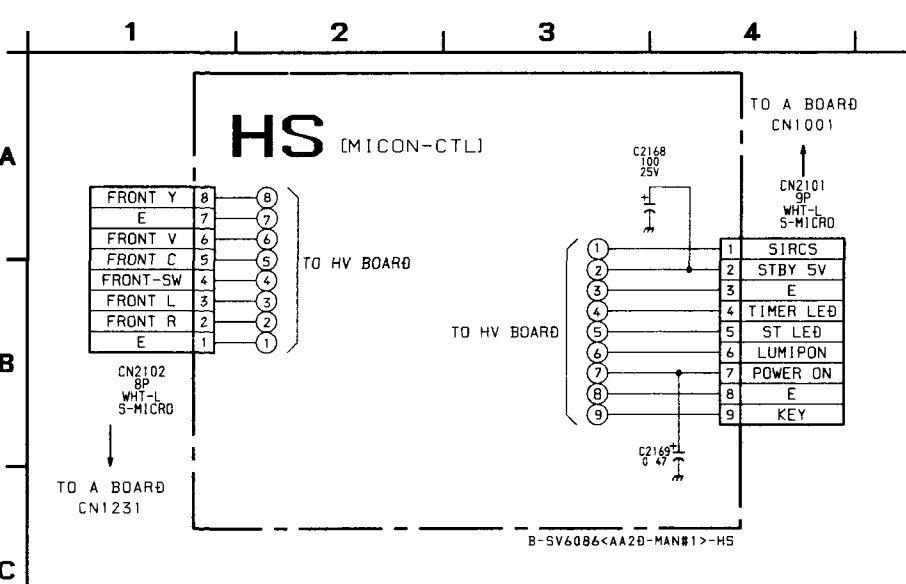
All voltages are in V

### AV BOARD IC VOLTAGE LIST

	pin	volt		pin	volt
IC1901	1	0.2		7	0
	2	0.2		8	1.3
	3	NC		9	0
	4	NC		10	GND
	5	NC		11	GND
	6	NC		12	GND
	7	NC		13	GND
	8	GND		14	0.2
	9	NC	IC1903	1	GND
	10	NC		2	GND
	11	8.7		3	NC
	12	GND		4	5.0
	13	GND		5	NC
	14	4.9		6	0.2
	IC1902	15	5.0	7	5.0
		16	8.7	8	0.4
1		0.2	9	NC	
2		0.2	10	0.4	
3		5.0	11	0	
4		1.3	12	0	
5		0	13	5.0	
6		1.3	14	NC	

All voltages are in V

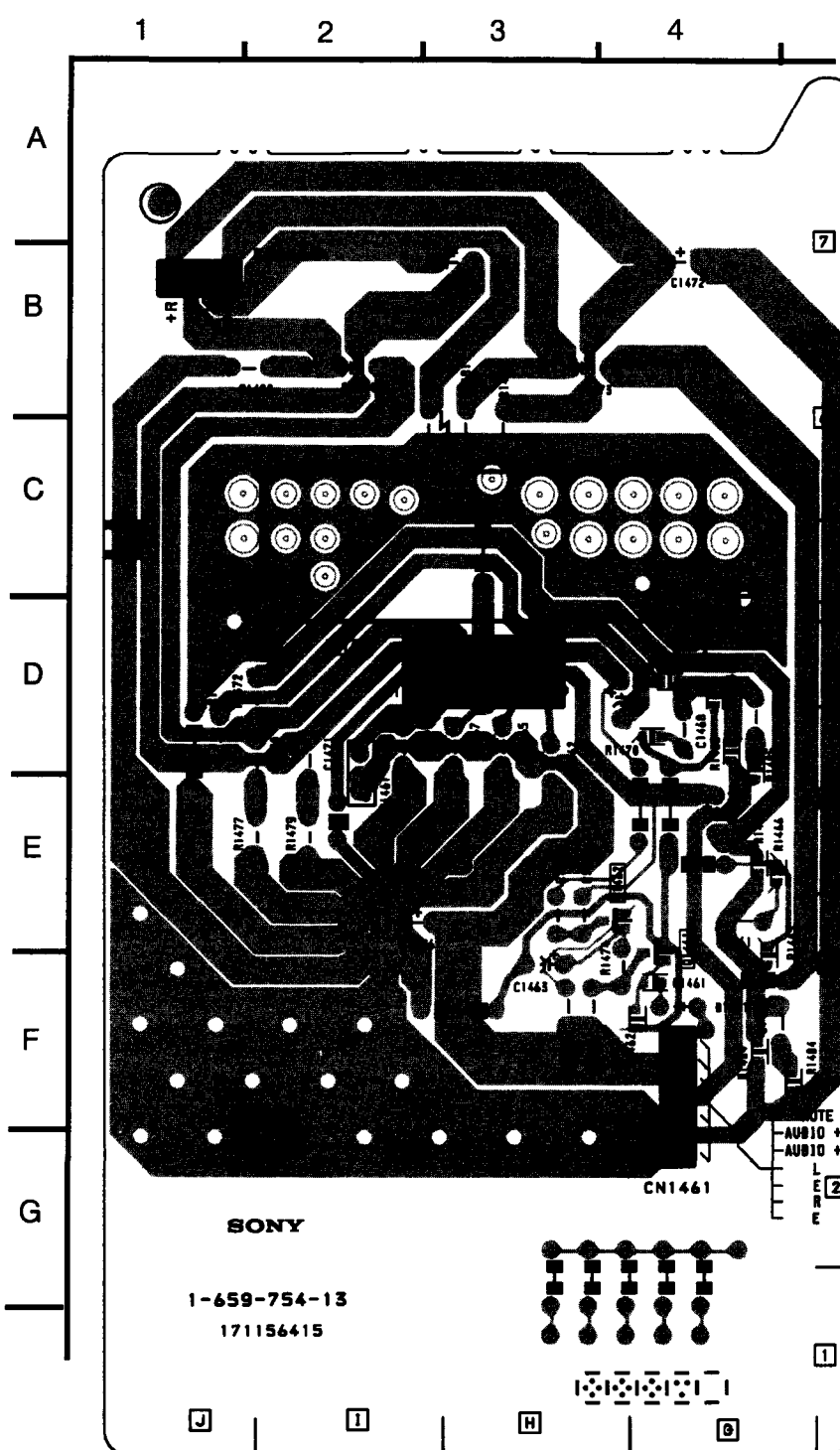
(KV-34V36K/37V36T)



B-SV6086<AA20-MAN#1>-HS

**K** [AUDIO AMP]  
(KV-29V36K/29V76T/34V36K)

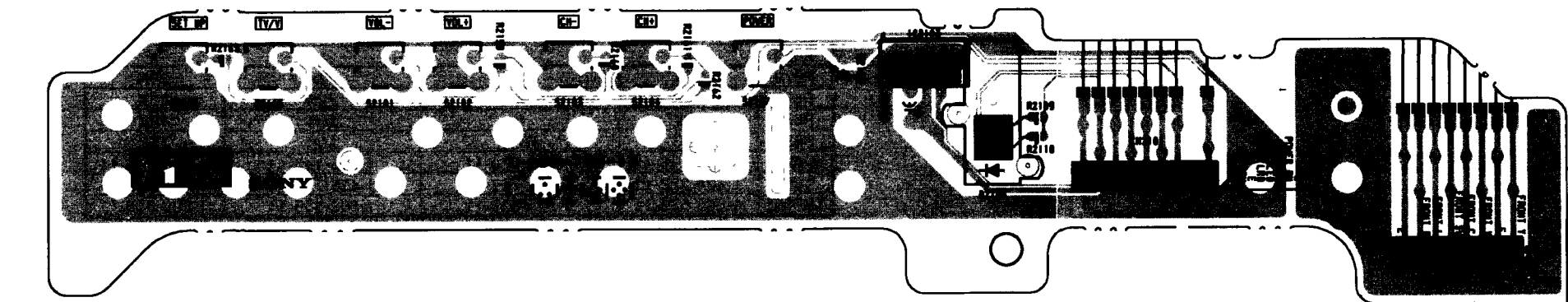
— K BOARD —



— 59 —

**HS** [MICON-CTL.]  
(KV-34V36K/37V36T)

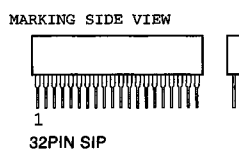
— HS BOARD —



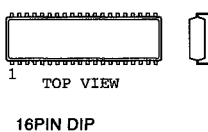
### Schematic diagrams

## 4-4. SEMICONDUCTORS

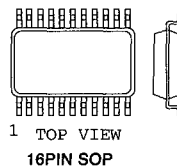
BH3856FS-E2



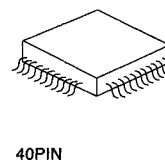
CD4052BCN



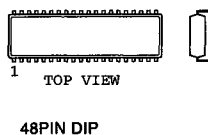
CXA1315M



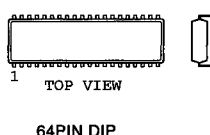
CXA-2019Q-T4



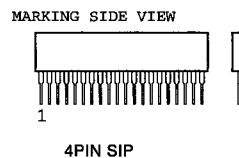
CXA2025AS



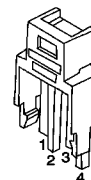
CXP85640-002S



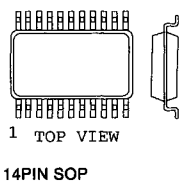
DM-58



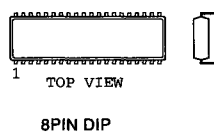
IS474



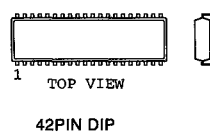
LM2901M



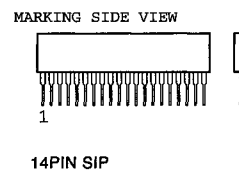
M5216P



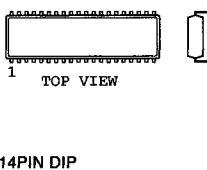
MM1313AD



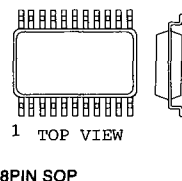
NJM2129M-TE2



NJM2902M



NJM2903M  
NJM2904M  
ST24CO2FM6TR  
UPC4558G2



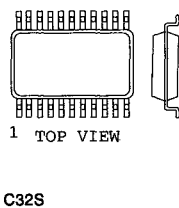
NJM78M05FA  
TA7805S



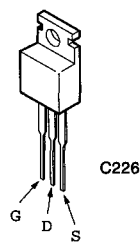
SBX1790-51



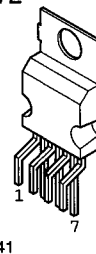
SDA9288X



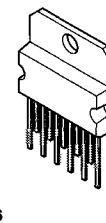
IRF614



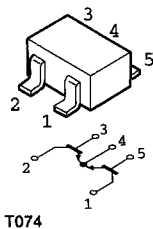
TDA8172



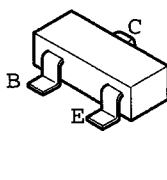
TDA2009A



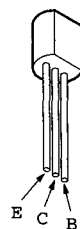
FMGAT148  
2SC5418



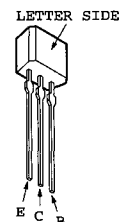
2SA1037AK-T146-R  
2SA1162-G  
2SA1130-06  
2SD601A-Q



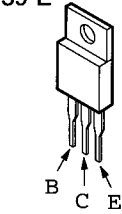
2SA1091-0



2SA1175-HFE  
2SC2785-HFE

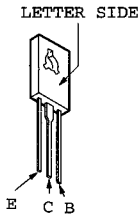


2SA1837  
2SC4159-E

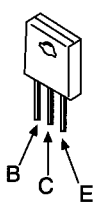


T046

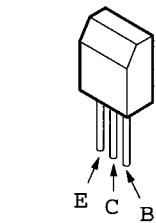
2SC2611



2SC4834M

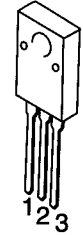


2SC3209LK



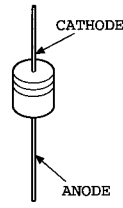
T075

D10SC4M



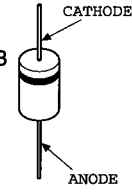
D216

D1NS4  
MTZJ-3.3  
MTZJ-33A  
MTZJ-6.2B  
MTZJ-7.5B  
RD10ESB2  
RD39ES-B2  
RD5.6ESB2  
1SS19-25



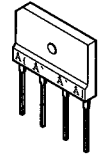
D026

D2L20U  
EL1Z  
EZ0150AV1  
GP08D  
MTZJ-T-77-3.9  
RGP02-17EL-6433



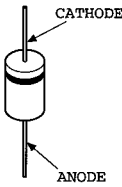
D032

D4SB60L  
RBA-1004B



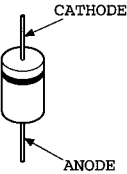
D029

ERC06-15S  
ISSI33T-77



D030

ERD29-08J



D095

## SECTION 5 EXPLODED VIEWS

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The component parts of an assembly are indicated by the reference numbers in the remarks column.

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

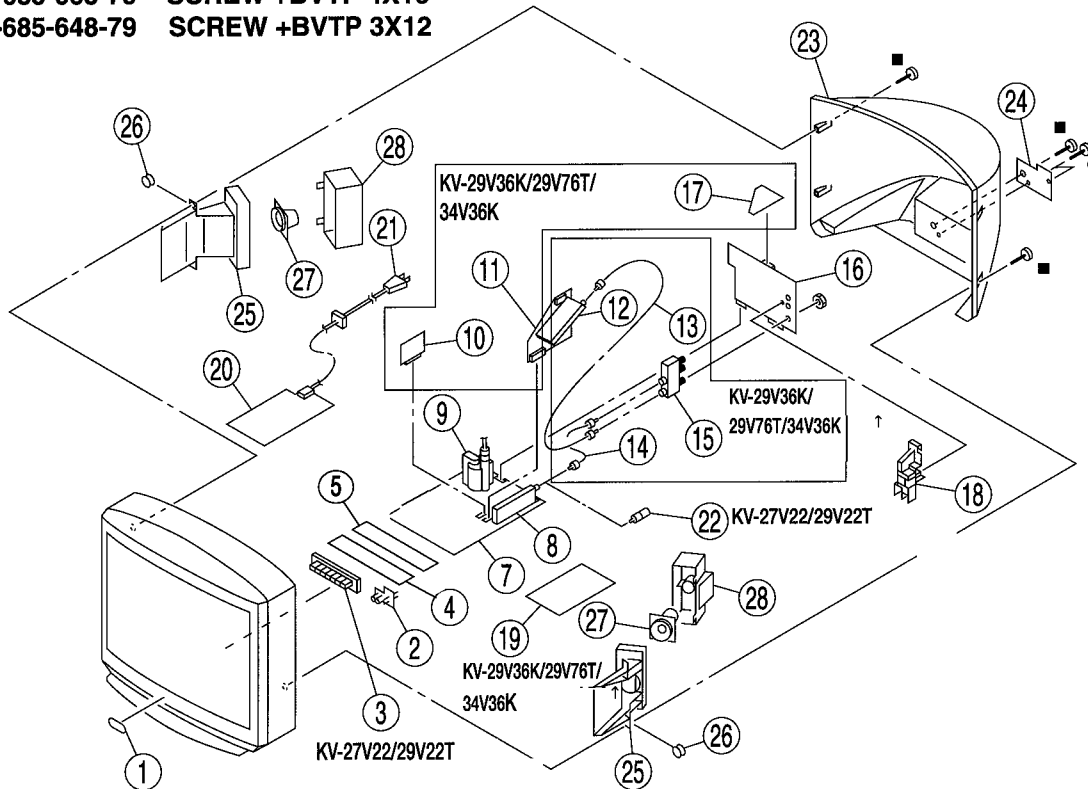
### Note:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

### 5-1. CHASSIS (KV-27V22/29V22T/29V36K/29V76T/34V36K)

- 7-685-663-79 SCREW +BVTP 4X16
- 7-685-648-79 SCREW +BVTP 3X12



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-046-160-01	EMBLEM (NO.9), SONY	
2	* 4-052-897-01	GUIDE, LED	
3	4-052-907-01	BUTTON, MULTI (KV-27V22/29V22T)	
4	* A-1372-337-A	HV BOARD, MOUNTED (KV-27V22/29V22T)	
4	* A-1372-346-A	HV BOARD, MOUNTED (KV-29V36K/29V76T)	
4	* A-1372-330-A	HV BOARD, MOUNTED (KV-34V36K)	
5	* A-1372-326-A	HS BOARD, MOUNTED (KV-34V36K)	
7	* A-1298-111-A	A BOARD, COMPLETE (KV-27V22)	
7	* A-1298-181-A	A BOARD, COMPLETE (KV-29V22T)	
7	* A-1298-182-A	A BOARD, COMPLETE (KV-29V76T)	
7	* A-1298-197-A	A BOARD, COMPLETE (KV-34V36K)	
7	* A-1298-198-A	A BOARD, COMPLETE (KV-29V36K)	
8	$\Delta$ 8-598-340-00	TUNER BTf-WA404 (KV-27V22)	
8	$\Delta$ 8-598-426-00	TUNER BTf-WL401 (KV-29V36K/34V36K)	
8	$\Delta$ 8-598-435-00	TUNER BTf-WG404 (KV-29V22T/29V76T)	
9	$\Delta$ 1-453-207-11	TRANSFORMER ASSY, FLYBACK (NX-2609/X4C)	
10	* A-1195-103-A	P BOARD, COMPLETE (KV-29V36K/29V76T/34V36K)	
11	* A-1297-720-A	AV BOARD, COMPLETE (KV-29V36K/29V76T/34V36K)	
12	$\Delta$ 8-598-339-00	TUNER BTf-LA402 (KV-29V36K/29V76T/34V36K)	
13	* 1-557-056-31	CABLE, P-P (KV-29V36K/29V76T/34V36K)	
13	* 1-556-945-21	CABLE, P-P (KV-34V36K)	
14	* 1-551-382-31	CABLE, P-P (KV-29V36K/29V76T)	
15	8-598-414-00	SWITCH, ANTENNA AS-2F (KV-29V36K/29V76T)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
16	* A-1394-846-A	UV BOARD, COMPLETE (KV-34V36K)	
16	* A-1394-856-A	UV BOARD, COMPLETE (KV-27V22/29V22T)	
16	* A-1394-859-A	UV BOARD, COMPLETE (KV-29V36K/29V76T)	
17	* A-1390-585-A	SC BOARD, MOUNTED (KV-29V36K/29V76T/34V36K)	
18	* 4-052-905-01	BRACKET, V5/6 (KV-29V36K/29V76T/34V36K)	
19	* A-1380-518-A	K BOARD, COMPLETE (KV-29V36K/29V76T/34V36K)	
20	* A-1316-306-A	G BOARD, COMPLETE (KV-29V36K/34V36K)	
20	* A-1316-352-A	G BOARD, COMPLETE (KV-29V22T/29V76T)	
20	* A-1316-261-A	G BOARD, COMPLETE (KV-27V22)	
21	$\Delta$ 1-751-459-11	CORD POWER (WITH CONNECTOR) (KV-27V22/29V22T/29V76T)	
21	$\Delta$ 1-775-468-21	CORD POWER (WITH CONNECTOR) (KV-29V36K/34V36K)	
22	1-766-374-11	PLUG, F-PIN (KV-27V22/29V22T)	
23	4-053-784-03	COVER, REAR (KV-29V36K/29V76T)	
23	4-053-784-23	COVER, REAR (KV-27V22/29V22T)	
23	4-053-766-01	COVER, REAR (KV-34V36K)	
24	4-053-783-01	LABEL, TERMINAL (KV-27V22/29V22T)	
24	4-052-898-11	LABEL, TERMINAL (KV-29V36K/29V76T/34V36K)	
25	4-043-457-01	BAFFLE, SPEAKER	
26	4-374-745-31	CUSHION (A)	
27	1-504-524-11	SPEAKER (8CM) (KV-27V22/29V22T)	
27	1-505-326-11	SPEAKER (8CM) (KV-29V36K/29V76T/34V36K)	
28	X-4032-226-1	COVER ASSY, SPEAKER (KV-27V22/29V22T)	
28	X-4033-616-1	COVER ASSY, SPEAKER (KV-29V36K/29V76T/34V36K)	



**5-2. PICTURE TUBE (KV-27V22/29V22T/29V36K/29V76T)**

- The component parts of an assembly are indicated by the reference numbers in the remarks column.

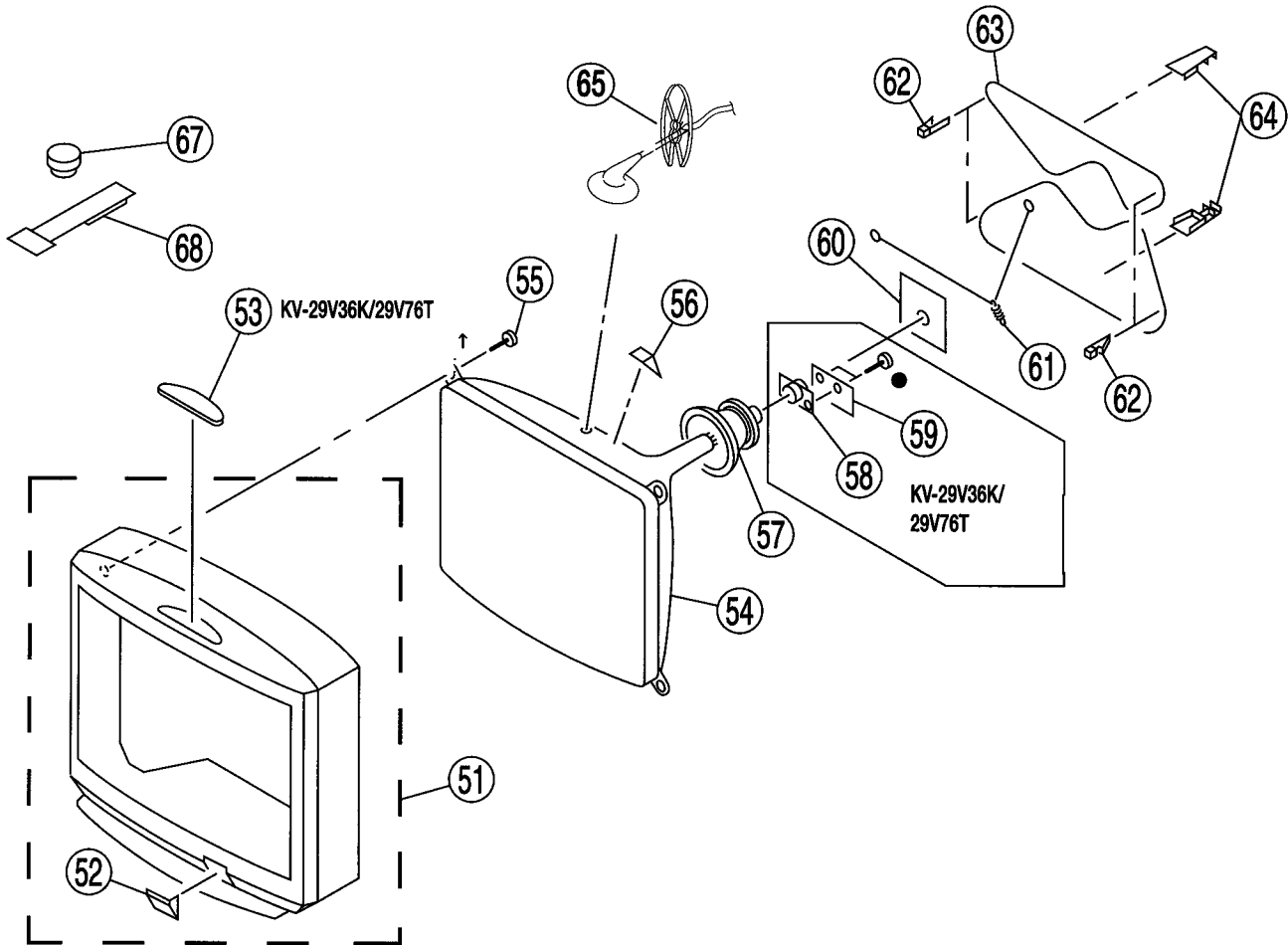
• **7-685-648-79 SCREW +BVTP 3X12**

**Note:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4034-593-1	BEZNET ASSY (KV-27V22/29V22T)	52
51	X-4034-595-1	BEZNET ASSY (KV-29V36K/29V76T)	52
52	4-052-906-31	DOOR, CONTROL (KV-27V22/29V22T)	
52	4-052-906-51	DOOR, CONTROL (KV-29V36K/29V76T)	
53	1-473-549-11	SWITCH BLOCK, CONTROL (KV-29V36K/29V76T)	

54	$\Delta$ 8-733-848-05	CRT 29PXD (SD-29V76CR) A88KZJ50X	
55	4-041-268-01	SCREW (7), TAPPING	
56	4-053-005-01	SPACER, DEFLECTION YOKE	
57	$\Delta$ 8-451-275-42	DEFLECTION YOKE (Y26PFA)	
58	$\Delta$ 1-452-509-41	NECK ASSY, CRT (KV-29V36K/29V76T)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
59	* A-1372-225 A	WB BOARD, COMPLETE (KV-29V36K/29V76T)	
60	* A-1331-549-A	C BOARD, COMPLETE	
61	4-036-329-01	SPRING (B), TENSION	
62	4-040-388-01	HOLDER DGC, (S)	
63	$\Delta$ 1-406-726-81	COIL DEMAGNETIC (KV-29V36K)	
63	$\Delta$ 1-411-394-11	COIL DEMAGNETIC (KV-27V22/29V22T/29V36K)	
64	4-040-387-01	HOLDER DGC, (M)	
65	3-704-372-31	HOLDER, HV CABLE	
67	1-452-032-00	MAGNET, DISC	
68	X-4306-312-0	PERMALLOY, CONVERGENCE	

### 5-3. PICTURE TUBE (KV-34V36K ONLY)

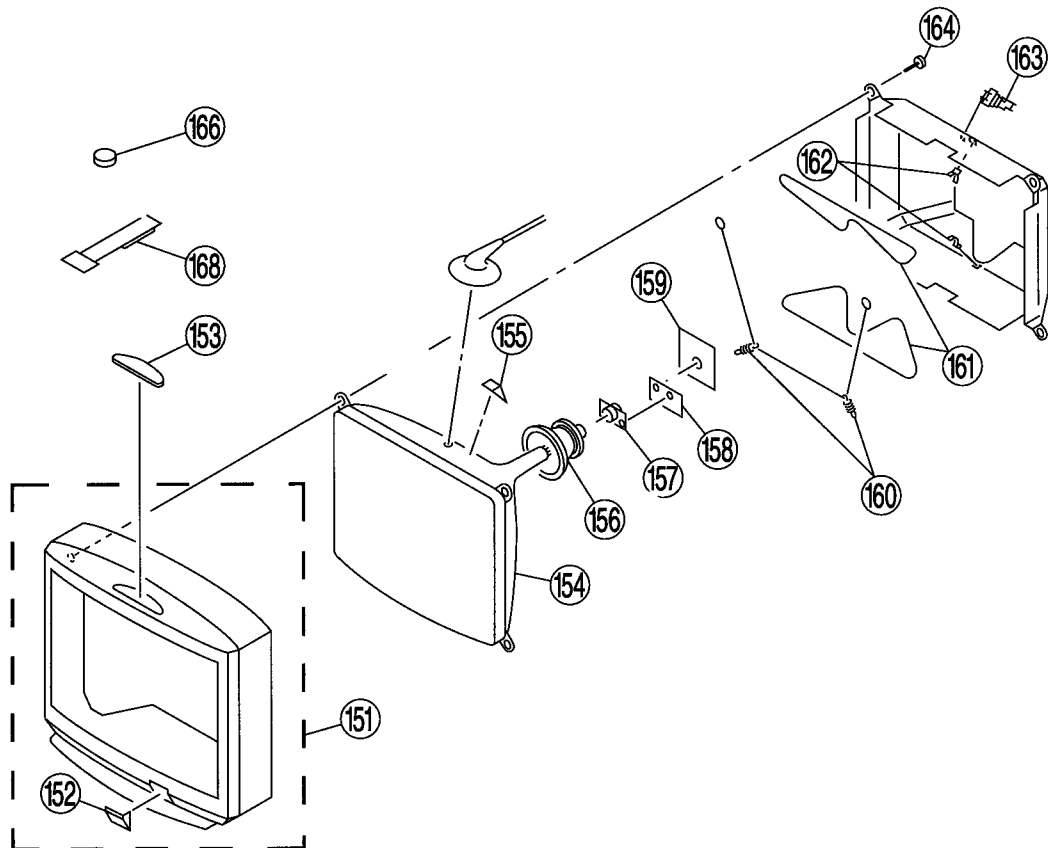
- The component parts of an assembly are indicated by the reference numbers in the remarks column.

**Note:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
151	X-4034-597-1	BEZNET ASSY	152
152	4-052-906-51	DOOR, CONTROL	
153	1-473-549-11	SWITCH BLOCK, CONTROL	
154	1-452-579-21	NECK ASSY, CRT (NA322)	
155	4-053-005-01	SPACER, DEFLECTION YOKE	
156	4-451-482-21	DEFLECTION YOKE (Y34PXA2-X)	
157	1-452-579-21	NECK ASSY, CRT (NA322)	
158	A-1372-225-A	WB BOARD, COMPLETE	
159	A-1331-549-A	C BOARD, COMPLETE	
160	4-036-329-01	SPRING (B), TENSION	
161	1-411-474-11	COIL DEMAGNETIC	
162	4-371-629-01	STOPPER WIRE	
163	4-033-681-01	HOLDER, LEAD	
164	4-041-268-01	SCREW (7), TAPPING	
166	1-452-885-11	MAGNET, LANDING	
168	4-051-737-21	PIECE A (100), CONV. CORRECT	

**Note:**

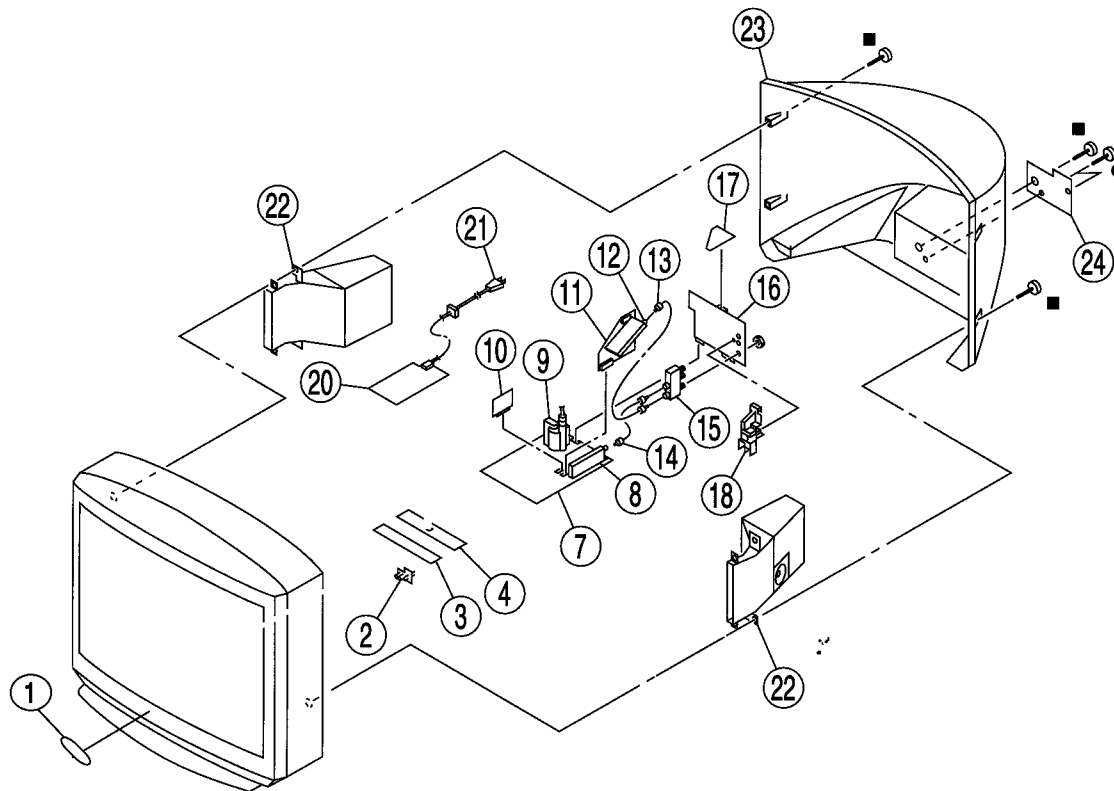
The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**5-4. CHASSIS (KV-37V36T ONLY)**

- 7-685-648-79 SCREW +BVTP 3X12
- 7-685-663-79 SCREW +BVTP 4X16

**Note:**

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	4-046-160-01	EMBLEM (NO. 9) SONY	
2 *	4-052-897-01	GUIDE, LED	
3 *	A-1372-330-A	HV BOARD, COMPLETE	
4 *	A-1372-326-A	HS BOARD, COMPLETE	
7 *	A-1298-184-A	A BOARD, COMPLETE	
8 $\Delta$	8-598-435-00	TUNER BTP-WG404	
9 $\Delta$	1-453-126-11	TRANSFORMER ASSY. FLYBACK (VZ-0004A3)	
10 *	A-1195-103-A	P BOARD, COMPLETE	
11 *	A-1297-720-A	AV BOARD, COMPLETE	
12 $\Delta$	8-598-335-00	TUNER BTP-LA402	
13 *	1-551-382-31	CABLE, P-P	
14 *	1-557-056-31	CABLE, P-P	
15	8-598-414-00	ANTENNA SWITCH AS-2F	
16 *	A-1394-847-A	UV BOARD, COMPLETE	
17 *	A-1390-585-A	SC BOARD, COMPLETE	
18 *	4-052-905-01	BRACKET, V5/6	
20 *	A-1316-353-A	G BOARD, COMPLETE	
21	1-751-059-11	CORD, POWER (WITH CONNECTOR) 10A/125V	
22	1-505-684-11	SPEAKER UNIT, BOX TYPE-2 WAY	
23	4-052-903-01	COVER, REAR	
24	4-052-899-11	LABEL, TERMINAL	

**Note:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

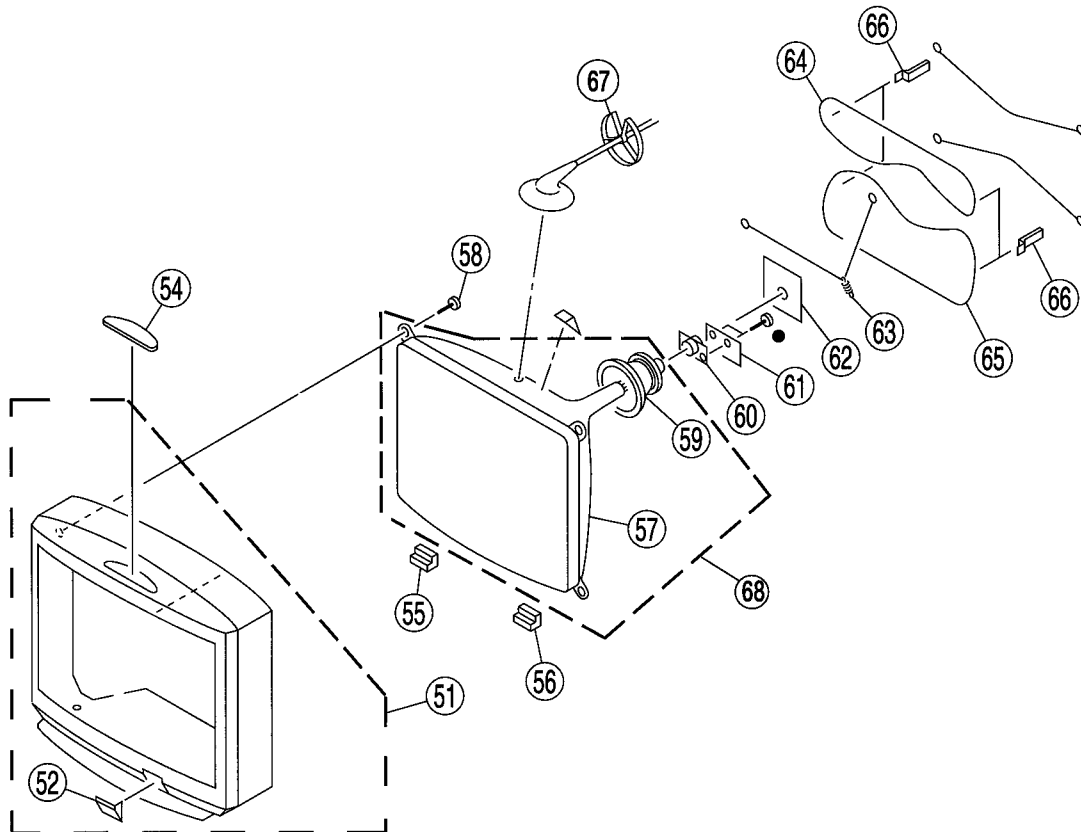
**5-5. PICTURE TUBE (KV-37V36T ONLY)**

- The component parts of an assembly are indicated by the reference numbers in the remarks column.

●: 7-685-648-79 +BVTP 3X12

**Note:**

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
51	X-4034-522-1	BEZNET ASSY	52
52	4-052-906-51	DOOR, CONTROL	
54	1-473-549-11	SWITCH BLOCK, CONTROL	
55	4-052-902-01	CRT SUPPORT (L)	
56	4-052-901-01	CRT SUPPORT (R)	
57 $\Delta$	<b>8-733-760-05</b>	<b>CRT (A89LJT80X)</b>	
58	4-046-765-01	SCREW, TAPPING	
59 $\Delta$	<b>8-451-480-11</b>	<b>DY (Y37GXA-X)</b>	
60	8-453-007-11	NA324-M	
61 *	A-1372-211-A	WA BOARD, COMPLETE	
62 *	A-1331-522-A	C BOARD, COMPLETE	
63	4-036-329-01	SPRING (B), TENSION	
64 $\Delta$	<b>1-411-881-11</b>	<b>COIL, DEMAGNETIC</b>	
65 $\Delta$	<b>1-411-882-11</b>	<b>COIL, DEMAGNETIC</b>	
66 *	4-052-900-01	HOLDER, DGC	
67	3-704-372-31	HOLDER, HV CABLE	
68 $\Delta$	<b>8-733-760-71</b>	<b>ITC 37GX-A1</b>	57, 59



## SECTION 6

### ELECTRICAL PARTS LIST

**Note:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

The components identified by  $\Delta$  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

**RESISTORS**

- All resistors are in ohms
- F : nonflammable

**CAPACITORS**

- MF =  $\mu$ F

**INDUCTORS**UH =  $\mu$ H

MMH = mH

When indicating parts by reference number, please include the board name.

REF.NO.	PART NO.	DESCRIPTION	REMARK	REF.NO.	PART NO.	DESCRIPTION	REMARK
<div style="border: 1px solid black; padding: 5px; display: inline-block;"> <b>P</b> </div> * A-1195-103-A P BOARD, COMPLETE (KV-29V36K/29V76T/34V36K/37V36T)							
<b>CAPACITOR</b>							
C3301	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	C3340	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C3302	1-164-346-11	CERAMIC CHIP	1MF 16V	C3346	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C3303	1-163-038-91	CERAMIC CHIP	0.1MF 25V	C3347	1-126-960-11	ELECT	1MF 20% 50V
C3304	1-126-960-11	ELECT	1MF 20% 50V	C3348	1-126-967-11	ELECT	47MF 20% 16V
C3305	1-163-038-91	CERAMIC CHIP	0.1MF 25V	C3349	1-163-121-00	CERAMIC CHIP	150PF 5% 50V
C3306	1-126-967-11	ELECT	47MF 20% 16V	C3350	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C3307	1-163-038-91	CERAMIC CHIP	0.1MF 25V	C3351	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C3308	1-163-231-11	CERAMIC CHIP	15PF 5% 50V	<b>CONNECTOR</b>			
C3309	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V	CN3301*	1-764-816-11	CONNECTOR, BOARD TO BOARD 20P	
C3310	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	<b>IC</b>			
C3313	1-163-038-91	CERAMIC CHIP	0.1MF 25V	IC3301	8-759-366-24	IC TDA8315T/N3A-T	
C3314	1-163-038-91	CERAMIC CHIP	0.1MF 25V	IC3302	8-759-231-53	IC TA7805S	
C3315	1-164-346-11	CERAMIC CHIP	1MF 16V	IC3303	8-759-438-61	IC SDA9288X-A141	
C3319	1-163-031-11	CERAMIC CHIP	0.01MF 50V	<b>COIL</b>			
C3320	1-126-960-11	ELECT	1MF 20% 50V	L3301	1-408-413-00	INDUCTOR	22UH
C3321	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	L3302	1-410-473-11	INDUCTOR	18UH
C3322	1-163-239-11	CERAMIC CHIP	33PF 5% 50V	L3303	1-408-418-00	INDUCTOR	56UH
C3323	1-163-031-11	CERAMIC CHIP	0.01MF 50V	<b>TRANSISTOR</b>			
C3324	1-126-967-11	ELECT	47MF 20% 16V	Q3301	8-729-422-27	TRANSISTOR 2SD601A-Q	
C3325	1-163-038-91	CERAMIC CHIP	0.1MF 25V	Q3305	8-729-216-22	TRANSISTOR 2SA1162-G	
C3326	1-163-038-91	CERAMIC CHIP	0.1MF 25V	Q3306	8-729-216-22	TRANSISTOR 2SA1162-G	
C3327	1-163-038-91	CERAMIC CHIP	0.1MF 25V	Q3307	8-729-216-22	TRANSISTOR 2SA1162-G	
C3328	1-126-967-11	ELECT	47MF 20% 16V	Q3308	8-729-422-27	TRANSISTOR 2SD601A-Q	
C3329	1-126-967-11	ELECT	47MF 20% 16V	Q3310	8-729-422-27	TRANSISTOR 2SD601A-Q	
C3330	1-163-031-11	CERAMIC CHIP	0.01MF 50V	Q3312	8-729-216-22	TRANSISTOR 2SA1162-G	
C3331	1-126-967-11	ELECT	47MF 20% 16V	Q3313	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C3332	1-104-664-11	ELECT	47MF 20% 25V	<b>RESISTOR</b>			
C3333	1-164-695-11	CERAMIC CHIP	0.0022MF 5% 50V	R3301	1-216-075-00	METAL GLAZE	12K 5% 1/10W
C3334	1-163-031-11	CERAMIC CHIP	0.01MF 50V	R3302	1-216-043-91	METAL GLAZE	560 5% 1/10W
C3335	1-163-038-91	CERAMIC CHIP	0.1MF 25V	R3303	1-216-295-91	CONDUCTOR, CHIP	(2012)
C3336	1-163-038-91	CERAMIC CHIP	0.1MF 25V	R3304	1-216-043-91	METAL GLAZE	560 5% 1/10W
C3337	1-164-005-11	CERAMIC CHIP	0.47MF 25V	R3306	1-215-882-00	METAL OXIDE	22 5% 2W F
C3338	1-163-141-00	CERAMIC CHIP	0.001MF 5% 50V	R3307	1-216-097-91	METAL GLAZE	100K 5% 1/10W
				R3308	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W

Note:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
R3309	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R3310	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R3311	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R3312	1-216-037-00	METAL GLAZE	330 5% 1/10W
R3313	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3314	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3315	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3316	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3319	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3321	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3322	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R3323	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R3324	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R3326	1-216-037-00	METAL GLAZE	330 5% 1/10W
R3327	1-216-031-00	METAL GLAZE	180 5% 1/10W
R3328	1-216-037-00	METAL GLAZE	330 5% 1/10W
R3329	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R3330	1-216-035-00	METAL GLAZE	270 5% 1/10W
R3331	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R3332	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3337	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3338	1-216-033-00	METAL GLAZE	220 5% 1/10W
R3339	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3340	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3341	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3342	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R3343	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R3346	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R3351	1-216-295-91	CONDUCTOR, CHIP (2012)	
R3352	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R3358	1-216-047-91	METAL GLAZE	820 5% 1/10W
R3359	1-216-047-91	METAL GLAZE	820 5% 1/10W
R3360	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3361	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R3362	1-216-029-00	METAL GLAZE	150 5% 1/10W
R3363	1-216-031-00	METAL GLAZE	180 5% 1/10W
R3364	1-216-035-00	METAL GLAZE	270 5% 1/10W
R3365	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R3366	1-216-105-91	METAL GLAZE	220K 5% 1/10W
R3367	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R3368	1-216-103-00	METAL GLAZE	180K 5% 1/10W
R3369	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R3370	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3371	1-216-095-00	METAL GLAZE	82K 5% 1/10W
R3372	1-216-041-00	METAL GLAZE	470 5% 1/10W
R3373	1-216-035-00	METAL GLAZE	270 5% 1/10W

**CRYSTAL**

X3301	1-567-505-11	OSCILLATOR, CRYSTAL
X3302	1-760-095-21	VIBRATOR, CRYSTAL

REF.NO. PART NO. DESCRIPTION REMARK

**AV**

\* A-1297-720-A AV BOARD, COMPLETE  
(KV-29V36K/29V76T/34V36K/37V36T)

**CAPACITOR**

C101	1-126-960-11	ELECT	1MF	20%	50V
C102	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C104	1-126-964-11	ELECT	10MF	20%	50V
C106	1-104-664-11	ELECT	47MF	20%	25V
C108	1-126-933-11	ELECT	100MF	20%	16V
C109	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C110	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C111	1-126-960-11	ELECT	1MF	20%	50V
C113	1-126-934-11	ELECT	220MF	20%	16V
C1902	1-126-964-11	ELECT	10MF	20%	50V
C1903	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1904	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1905	1-126-964-11	ELECT	10MF	20%	50V
C1906	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1907	1-126-964-11	ELECT	10MF	20%	50V
C1908	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1909	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1910	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C1911	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V

**CONNECTOR**

CN101	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P
CN102	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P
CN103 *	1-564-507-11	PLUG, CONNECTOR 4P
CN106 *	1-564-506-11	PLUG, CONNECTOR 3P

**DIODE**

D101	8-719-109-89	DIODE RD5.6ESB2
D103	8-719-991-33	DIODE 1SS133T-77
D104	8-719-991-33	DIODE 1SS133T-77

**IC**

IC1901	8-752-058-68	IC CXA1315M
IC1902	8-759-981-61	IC LM2901M
IC1903	8-759-356-27	IC NJM2129M-TE2

**COIL**

L102	1-410-470-11	INDUCTOR	10UH
L105	1-408-421-00	INDUCTOR	100UH



**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
<b>TRANSISTOR</b>			
Q101	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q103	8-729-216-22	TRANSISTOR 2SA1162-G	
Q104	8-729-216-22	TRANSISTOR 2SA1162-G	
Q105	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1901	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1902	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1906	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1908	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1911	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1912	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1914	8-729-216-22	TRANSISTOR 2SA1162-G	
Q1916	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1917	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1918	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1919	8-729-422-27	TRANSISTOR 2SD601A-Q	
<b>RESISTOR</b>			
R101	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R102	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R103	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R104	1-216-045-00	METAL GLAZE 680	5% 1/10W
R106	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R107	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R108	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R109	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R112	1-249-421-11	CARBON 2.2K	5% 1/4W
R113	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R114	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R115	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R116	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R117	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R1904	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1905	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1906	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1907	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1908	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1909	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1910	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1911	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1915	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1916	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1922	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1923	1-216-043-91	METAL GLAZE 560	5% 1/10W
R1928	1-216-041-00	METAL GLAZE 470	5% 1/10W
R1929	1-216-089-91	METAL GLAZE 47K	5% 1/10W
R1930	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1931	1-216-025-91	METAL GLAZE 100	5% 1/10W
R1932	1-216-073-00	METAL GLAZE 10K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1934	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R1935	1-216-295-91	CONDUCTOR, CHIP (2012)	
R1936	1-208-804-11	METAL GLAZE 8.2K	0.50% 1/10W
R1937	1-208-790-11	METAL GLAZE 2.2K	0.50% 1/10W
R1940	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2901	1-208-808-11	METAL GLAZE 12K	0.50% 1/10W
R2903	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2904	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2905	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2906	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2907	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R2908	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2909	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2910	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2911	1-216-061-00	METAL GLAZE 3.3K	5% 1/10W
R2912	1-249-425-11	CARBON 4.7K	5% 1/4W
R2913	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2914	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2916	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2917	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2918	1-216-073-00	METAL GLAZE 10K	5% 1/10W

**TUNER**

**TUNER** A-1298-181-00 TUNER, PDS BTP, CARBON



- \* A-1298-111-A A BOARD, COMPLETE (KV-27V22)
- \* A-1298-181-A A BOARD, COMPLETE (KV-29V22T)
- \* A-1298-182-A A BOARD, COMPLETE (KV-29V76T)
- \* A-1298-184-A A BOARD, COMPLETE (KV-37V36T)
- \* A-1298-197-A A BOARD, COMPLETE (KV-34V36K)
- \* A-1298-198-A A BOARD, COMPLETE (KV-29V36K)

- \* 4-051-927-01 CASE, SHIELD
- \* 4-382-854-11 SCREW (M3X10), P, SW (+)

**CAPACITOR**

C001	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C003	1-104-760-11	CERAMIC CHIP 0.047MF	10% 50V
C005	1-126-960-11	ELECT 1MF	20% 50V
C009	1-126-967-11	ELECT 47MF	20% 50V
C010	1-163-033-91	CERAMIC CHIP 0.022MF	50V
C012	1-216-033-00	METAL GLAZE 220	5% 1/10W
C013	1-216-121-91	METAL GLAZE 1M	5% 1/10W
C014	1-164-161-11	CERAMIC CHIP 0.0022MF	10% 50V
C023	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C028	1-163-227-11	CERAMIC CHIP 10PF	0.5PF 50V

Note:

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Note:

Les composants identifiés par un trame et  
une marque  $\Delta$  sont critiques pour la  
sécurité. Ne les remplacer que par une  
pièce portant le numéro spécifié.

A

REF.NO.	PART NO.	DESCRIPTION	REMARK		
C029	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C030	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C035	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C036	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C037	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C038	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C039	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C040	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C051	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C053	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C056	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C061	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C062	1-163-033-91	CERAMIC CHIP	0.022MF		50V
C063	1-126-935-11	ELECT	470MF	20%	16V
C071	1-164-096-11	CERAMIC	0.01MF		50V
C072	1-164-161-11	CERAMIC CHIP	0.0022MF	10%	50V
C075	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C353	1-163-231-11	CERAMIC CHIP	15PF	5%	50V
C354	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C355	1-126-959-11	ELECT	0.47MF	20%	50V
C356	1-126-963-11	ELECT	4.7MF	20%	50V
C357	1-126-959-11	ELECT	0.47MF	20%	50V
C358	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C359	1-126-933-11	ELECT	100MF	20%	16V
C363	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C364	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C365	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C366	1-137-399-11	FILM	0.1MF	5%	50V
C367	1-137-399-11	FILM	0.1MF	5%	50V
C368	1-137-399-11	FILM	0.1MF	5%	50V
C369	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C370	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C371	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V
C372	1-126-959-11	ELECT	0.47MF	20%	50V
C373	1-126-960-11	ELECT	1MF	20%	50V
C375	1-165-319-11	CERAMIC CHIP	0.1MF		50V (KV-27V22/29V22T)
C376	1-126-964-11	ELECT	10MF	20%	50V
C377	1-137-399-11	FILM	0.1MF	5%	50V
C378	1-136-244-11	FILM	0.1MF	5%	50V
C379	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C380	1-126-935-11	ELECT	470MF	20%	16V
C381	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C383	1-137-399-11	FILM	0.1MF	5%	50V
C385	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C386	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V
C387	1-126-961-11	ELECT	2.2MF	20%	50V
C388	1-126-959-11	ELECT	0.47MF	20%	50V
C390	1-126-960-11	ELECT	1MF	20%	50V
C391	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V

REF.NO.	PART NO.	DESCRIPTION	REMARK		
C392	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C461	1-107-717-11	ELECT	33MF	20%	25V (KV-34V36K)
C461	1-128-551-11	ELECT	22MF	20%	25V (KV-27V22/29V22T)
C461	1-126-963-11	ELECT	4.7MF	20%	50V (KV-29V36K/29V76T)
C461	1-126-964-11	ELECT	10MF	20%	50V (KV-37V36T)
C462	1-126-961-11	ELECT	2.2MF	20%	50V
C463	1-126-961-11	ELECT	2.2MF	20%	50V
C464	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V (KV-34V36K)
C466	1-104-666-11	ELECT	220MF	20%	25V
C467	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V (KV-34V36K)
C468	1-104-664-11	ELECT	47MF	20%	25V
C470	1-126-961-11	ELECT	2.2MF	20%	50V
C471	1-104-666-11	ELECT	220MF	20%	25V
C472	1-136-173-00	FILM	0.47MF	5%	50V
C473	1-136-169-00	FILM	0.22MF	5%	50V
C474	1-126-942-61	ELECT	1000MF	20%	25V
C475	1-136-169-00	FILM	0.22MF	5%	50V
C476	1-126-942-61	ELECT	1000MF	20%	25V (KV-27V22/29V22T/37V36T)
C477	1-126-942-61	ELECT	1000MF	20%	25V (KV-27V22/29V22T/37V36T)
C478	1-126-934-11	ELECT	220MF	20%	16V (KV-34V36K)
C478	1-126-965-11	ELECT	22MF	20%	50V (KV-37V36T)
C479	1-126-961-11	ELECT	2.2MF	20%	50V (KV-37V36T)
C501	1-102-110-00	CERAMIC	220PF	10%	50V
C502	1-126-959-11	ELECT	0.47MF	20%	50V
C503	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C504	1-102-212-00	CERAMIC	820PF	10%	500V
C505	1-102-002-00	CERAMIC	680PF	10%	500V
C506	1-106-383-00	MYLAR	0.047MF	10%	200V
$\Delta$ C507	$\Delta$ 1-162-116-00	$\Delta$ CERAMIC	$\Delta$ 680PF	$\Delta$ 10%	$\Delta$ 2KV
C508	1-102-244-00	CERAMIC	220PF	10%	500V
C509	1-162-116-00	CERAMIC	680PF	10%	2KV
C510	1-137-150-11	MYLAR	0.01MF	10%	100V
$\Delta$ C511	$\Delta$ 1-116-400-11	$\Delta$ FILM	$\Delta$ 0.022MF	$\Delta$ 3%	$\Delta$ 1.2KV
$\Delta$ C513	$\Delta$ 1-130-005-00	$\Delta$ FILM	$\Delta$ 0.006MF	$\Delta$ 5%	$\Delta$ 400V (EXCEPT KV-37V36T)
$\Delta$ C513	$\Delta$ 1-129-120-00	$\Delta$ FILM	$\Delta$ 33MF	$\Delta$ 5%	$\Delta$ 600V (KV-37V36T)
$\Delta$ C514	$\Delta$ 1-104-044-11	$\Delta$ FILM	$\Delta$ 0.62MF	$\Delta$ 5%	$\Delta$ 200V (EXCEPT KV-37V36T)
$\Delta$ C514	$\Delta$ 1-136-540-11	$\Delta$ FILM	$\Delta$ 0.82MF	$\Delta$ 5%	$\Delta$ 200V (KV-37V36T)



**A**

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C515	1-106-343-00	MYLAR	0.001MF 10% 100V
C516	1-115-461-11	FILM	2MF 5% 200V
C517	1-107-649-11	ELECT	2.2MF 20% 250V
C518	1-106-395-00	MYLAR	0.15MF 10% 200V
C519	1-162-815-11	CERAMIC	47PF 5% 500V
C520	1-164-645-11	CERAMIC	1000PF 10% 500V (KV-34V36K/37V36T)
C520	1-164-646-11	CERAMIC	2200PF 10% 500V (KV-27V22/29V22T/29V76T/29V36K)
C521	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V
C522	1-126-960-11	ELECT	1MF 20% 50V
C525	1-102-244-00	CERAMIC	220PF 10% 500V
C526	1-107-662-11	ELECT	22MF 20% 250V
C527	1-162-116-00	CERAMIC	680PF 10% 2KV
C528	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V
C529	1-128-551-11	ELECT	22MF 20% 25V
C530	1-137-366-11	FILM	0.0022MF 5% 50V
C531	1-126-965-11	ELECT	22MF 20% 50V
C532	1-126-965-11	ELECT	22MF 20% 50V
C537	1-126-941-11	ELECT	470MF 20% 25V (EXCEPT KV-37V36T)
C537	1-126-942-61	ELECT	1000MF 20% 25V (KV-37V36T)
$\Delta$ C539	1-126-935-11	ELECT	470MF 20% 25V (EXCEPT KV-37V36T)
$\Delta$ C539	1-107-914-11	ELECT	1000MF 20% 25V (KV-37V36T)
C540	1-123-024-21	ELECT	33MF 160V
C541	1-128-560-11	ELECT	22MF 20% 100V
C542	1-106-383-00	MYLAR	0.047MF 10% 200V (KV-37V36T)
C543	1-162-131-11	CERAMIC	220PF 10% 2KV (KV-37V36T)
C545	1-106-387-00	MYLAR	0.068MF 10% 200V
C546	1-106-343-00	MYLAR	0.001MF 10% 100V
C547	1-106-343-00	MYLAR	0.001MF 10% 100V
C551	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C561	1-126-967-11	ELECT	47MF 20% 50V
C563	1-126-923-11	ELECT	220MF 20% 10V
C564	1-126-960-11	ELECT	1MF 20% 50V
C565	1-126-969-11	ELECT	220MF 20% 50V
C566	1-126-964-11	ELECT	10MF 20% 50V
C568	1-136-169-00	FILM	0.22MF 5% 50V
C571	1-104-664-11	ELECT	47MF 20% 25V
C1002	1-126-964-11	ELECT	10MF 20% 50V
C1101	1-126-768-11	ELECT	2200MF 20% 16V
C1103	1-126-965-11	ELECT	22MF 20% 50V
C1104	1-126-967-11	ELECT	47MF 20% 16V
C1105	1-126-967-11	ELECT	47MF 20% 16V
C1106	1-126-964-11	ELECT	10MF 20% 50V
C1107	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C1108	1-126-960-11	ELECT	1MF 20% 50V
C1109	1-126-964-11	ELECT	10MF 20% 50V
C1110	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
C1111	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
C1112	1-163-227-11	CERAMIC CHIP	10PF 0.5PF 50V
C1244	1-126-959-11	ELECT	0.47MF 20% 50V
C1245	1-126-959-11	ELECT	0.47MF 20% 50V
C1351	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C1352	1-126-933-11	ELECT	100MF 20% 16V
C1353	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C1354	1-216-295-91	CONDUCTOR, CHIP	(2012)
C1401	1-126-959-11	ELECT	0.47MF 20% 50V
C1402	1-126-964-11	ELECT	10MF 20% 50V
C1403	1-126-959-11	ELECT	0.47MF 20% 50V
C1404	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C1405	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C1406	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C1407	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C1408	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V (EXCEPT KV-34V36K)
C1408	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V (KV-34V36K)
C1409	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V (EXCEPT KV-34V36K)
C1409	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V (KV-34V36K)
C1410	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V (EXCEPT KV-34V36K)
C1410	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V (KV-34V36K)
C1411	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V (EXCEPT KV-34V36K)
C1411	1-164-182-11	CERAMIC CHIP	0.0033MF 10% 50V (KV-34V36K)
C1412	1-126-961-11	ELECT	2.2MF 20% 50V
C1413	1-126-961-11	ELECT	2.2MF 20% 50V
C1414	1-164-489-11	CERAMIC CHIP	0.22MF 10% 16V
C1415	1-126-965-11	ELECT	22MF 20% 50V
C1416	1-126-933-11	ELECT	100MF 20% 16V
C1417	1-126-767-11	ELECT	1000MF 20% 16V
C1420	1-164-005-11	CERAMIC CHIP	0.47MF 25V
C1501	1-115-462-11	FILM	0.12MF 5% 200V (KV-34V36K)

**CONNECTOR**

CN270	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P
CN271	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P
CN351 *	1-564-509-11	PLUG, CONNECTOR 6P
CN461 *	1-564-510-11	PLUG, CONNECTOR 7P (KV-34V36K/29V76T/29V36K)
CN461 *	1-564-507-11	PLUG, CONNECTOR 4P (KV-27V22/29V22T/37V36T)

**Note:** The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque **▲** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**A**

REF.NO.	PART NO.	DESCRIPTION	REMARK
CN501 *	1-580-798-11	CONNECTOR PIN (DY) 6P	
CN502	1-508-784-00	PIN, CONNECTOR (5 MM PITCH) 1P (KV-37V36T)	
CN503 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN1001 *	1-564-512-11	PLUG, CONNECTOR 9P	
CN1101	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P (KV-29V76T/29V36K/34V36K/37V36T)	
CN1103	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
CN1231	1-564-511-11	PLUG, CONNECTOR 8P	
CN1641 *	1-564-515-11	PLUG, CONNECTOR 12P	
CN1941 *	1-564-508-11	PLUG, CONNECTOR 5P (KV-29V76T/29V36K/34V36K)	
CN1941	1-564-511-11	PLUG, CONNECTOR 8P (KV-37V36T)	
CN3001	1-573-298-11	CONNECTOR, BOARD TO BOARD 20P	

#### DIODE

D001	8-719-991-33	DIODE 1SS133T-77	
D002	8-719-109-89	DIODE RD5.6ESB2	
D003	8-719-991-33	DIODE 1SS133T-77	
D004	8-719-110-17	DIODE RD10ESB2	
D011	8-719-983-14	DIODE MTZJ-T-77-3.9	
D013	8-719-991-33	DIODE 1SS133T-77 (KV-27V22/29V76T/29V36K/34V36K/37V36T)	
D014	8-719-991-33	DIODE 1SS133T-77	
D015	8-719-991-33	DIODE 1SS133T-77	
D353	8-719-991-33	DIODE 1SS133T-77	
D356	8-719-991-33	DIODE 1SS133T-77	
D360	8-719-110-17	DIODE RD10ESB2	
D362	8-719-991-33	DIODE 1SS133T-77	
D368	8-719-991-33	DIODE 1SS133T-77	
D462	8-719-991-33	DIODE 1SS133T-77	
D501	8-719-109-89	DIODE RD5.6ESB2	
D502	8-719-945-80	DIODE ERC06-15S	
D503	8-719-945-80	DIODE ERC06-15S	
D504	8-719-900-26	DIODE ERD29-08J	
D505	8-719-908-03	DIODE GP08D	
D506	8-719-908-03	DIODE GP08D	
D507	8-719-991-33	DIODE 1SS133T-77	
D515	8-719-302-43	DIODE EL1Z	
D516	8-719-991-33	DIODE 1SS133T-77	
D518	8-719-991-33	DIODE 1SS133T-77	
D519 ▲	8-719-302-43	DIODE EL1Z	
D520	8-719-991-33	DIODE 1SS133T-77	
D521	8-719-921-63	DIODE MTZJ-7.5B	
D530	8-719-979-85	DIODE EGP20G	
D531	8-719-979-85	DIODE EGP20G	
D534	8-719-302-43	DIODE EL1Z	
D535	8-719-028-72	DIODE RGP02-17EL-6433 (KV-37V36T)	
D561	8-719-908-03	DIODE GP08D	
D562	8-719-991-33	DIODE 1SS133T-77	
D1102	8-719-982-24	DIODE MTZJ-33A	
D1103	8-719-109-89	DIODE RD5.6ESB2	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D1248	8-719-981-99	DIODE MTZJ-3.3	
D1263	8-719-110-17	DIODE RD10ESB2	
D1264	8-719-110-17	DIODE RD10ESB2	

#### FERRITE BEAD

FB501	1-410-396-41	FERRITE BEAD INDUCTOR 0.45UH	
FB502	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB503	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

#### IC

IC001	8-752-880-88	IC CXP85840-002S	
IC002	8-759-354-28	IC ST24C02FM6TR	
IC351	8-752-076-76	IC CXA2025AS	
IC461	8-759-980-43	IC TDA2009A	
IC501	8-759-700-07	IC NJM2903M	
IC561	8-759-980-58	IC TDA8172 (EXCEPT KV-37V36T)	
IC561	8-759-192-71	IC STV9379 (KV-37V36T)	
IC1001	8-752-058-68	IC CXA1315M	
IC1401	8-759-369-39	IC BH3856FS-E2	
IC1402	8-759-100-96	IC UPC4558G2	

#### CHIP CONDUCTOR

JR001	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR163	1-216-295-91	CONDUCTOR, CHIP (2012) (EXCEPT KV-29V22T)	
JR240	1-216-295-91	CONDUCTOR, CHIP (2012) (EXCEPT KV-37V36T)	
JR351	1-216-295-91	CONDUCTOR, CHIP (2012) (KV-27V22/29V22T)	
JR352	1-216-295-91	CONDUCTOR, CHIP (2012) (KV-27V22/29V22T)	
JR501	1-216-295-91	CONDUCTOR, CHIP (2012) (EXCEPT KV-37V36T)	
JR1351	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR1352	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4101	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4108	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4110	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4114	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4116	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR4120	1-216-295-91	CONDUCTOR, CHIP (2012)	

#### COIL

L001	1-408-421-00	INDUCTOR	100UH
L002	1-408-421-00	INDUCTOR	100UH
L003	1-410-470-11	INDUCTOR	10UH
L004	1-410-470-11	INDUCTOR	10UH
L352	1-412-537-31	INDUCTOR	100UH
L461	1-408-418-00	INDUCTOR	56UH (KV-34V36K)
L461	1-408-425-00	INDUCTOR	220UH (KV-37V36T)
L461	1-410-470-11	INDUCTOR	10UH (KV-27V22/29V22T)
L461	1-410-473-11	INDUCTOR	18UH (KV-29V36K/29V76T)
L501 ▲	1-411-976-11	COIL, HORIZONTAL LINEARITY (KV-34V36K)	
L501 ▲	1-409-861-11	COIL, HORIZONTAL LINEARITY (EXCEPT KV-34V36K)	



Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
L502	1-412-552-11	INDUCTOR	2.2MMH
L503	1-406-677-11	COIL, CHOKE	10MMH
L511	1-406-607-11	COIL, CHOKE	15MMH
L517	1-412-552-11	INDUCTOR	2.2MMH
L541	1-406-677-11	COIL, CHOKE	10MMH (KV-37V36T)
L1101	1-408-421-00	INDUCTOR	100UH
L1102	1-410-470-11	INDUCTOR	10UH
L1401	1-410-494-11	INDUCTOR	1MMH

#### IC LINK

PS461  $\Delta$  1-532-984-11 LINK, IC 2A/30V

#### TRANSISTOR

Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q003	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q004	8-729-216-22	TRANSISTOR 2SA1162-G	
Q010	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q011	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q012	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q013	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q014	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q015	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q016	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q017	8-729-216-22	TRANSISTOR 2SA1162-G	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-216-22	TRANSISTOR 2SA1162-G	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q354	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q356	8-729-216-22	TRANSISTOR 2SA1162-G	
Q357	8-729-422-27	TRANSISTOR 2SD601A-Q	(KV-29V36K/29V76T/34V36K/37V36T)
Q358	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q461	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q462	8-729-216-22	TRANSISTOR 2SA1162-G	
Q501	8-729-140-50	TRANSISTOR 2SC3209LK	
Q502 $\Delta$	8-729-035-75	TRANSISTOR 2SC5140(BSONY)	(KV-34V36K/37V36T)
Q502 $\Delta$	8-729-016-32	TRANSISTOR 2SC4927-01	(KV-27V22/29V22T/29V76T/29V36K)
Q511 $\Delta$	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q512 $\Delta$	8-729-809-29	TRANSISTOR 2SC4159-E	
Q551	8-729-216-22	TRANSISTOR 2SA1162-G	
Q552	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q561	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q562	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q563	8-729-105-08	TRANSISTOR 2SA1330-O6	
Q1102	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q1103	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q1232	8-729-422-27	TRANSISTOR 2SD601A-Q	

REF.NO.	PART NO.	DESCRIPTION	REMARK
---------	----------	-------------	--------

#### RESISTOR

R001	1-216-045-00	METAL GLAZE	680	5%	1/10W
R002	1-247-815-91	CARBON	220	5%	1/4W
R003	1-216-097-91	METAL GLAZE	100K	5%	1/10W
R004	1-216-121-91	METAL GLAZE	1M	5%	1/10W
R005	1-247-815-91	CARBON	220	5%	1/4W
R006	1-247-815-91	CARBON	220	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R007	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R008	1-247-815-91	CARBON	220	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R009	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R010	1-216-037-00	METAL GLAZE	330	5%	1/10W
R011	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R012	1-216-033-00	METAL GLAZE	220	5%	1/10W
					(KV-29V36K/29V76T/34V36K/37V36T)
R013	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R014	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R015	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R016	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R019	1-249-425-11	CARBON	4.7K	5%	1/4W
R020	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R022	1-249-429-11	CARBON	10K	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R023	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R025	1-163-010-11	CERAMIC CHIP	0.0012MF	10%	50V
R026	1-163-038-91	CERAMIC CHIP	0.1MF		25V
R028	1-249-417-11	CARBON	1K	5%	1/4W
R029	1-216-025-91	METAL GLAZE	100	5%	1/10W
R030	1-249-425-11	CARBON	4.7K	5%	1/4W
R031	1-247-815-91	CARBON	220	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R032	1-247-815-91	CARBON	220	5%	1/4W
R034	1-247-815-91	CARBON	220	5%	1/4W
R035	1-247-815-91	CARBON	220	5%	1/4W
R036	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R037	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R038	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R039	1-247-807-31	CARBON	100	5%	1/4W
R040	1-247-815-91	CARBON	220	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R041	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
					(KV-29V36K/29V76T/34V36K/37V36T)
R042	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
					(KV-29V36K/29V76T/34V36K/37V36T)
R043	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R044	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R045	1-247-815-91	CARBON	220	5%	1/4W
					(KV-29V36K/29V76T/34V36K/37V36T)
R046	1-247-815-91	CARBON	220	5%	1/4W

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.


**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**A**


REF.NO.	PART NO.	DESCRIPTION	REMARK
R047	1-249-417-11	CARBON	1K 5% 1/4W
R048	1-249-417-11	CARBON	1K 5% 1/4W
R049	1-249-417-11	CARBON	1K 5% 1/4W
R050	1-247-815-91	CARBON	220 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R051	1-247-815-91	CARBON	220 5% 1/4W
R052	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R053	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R054	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R055	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R056	1-216-033-00	METAL GLAZE	220 5% 1/10W
R057	1-249-417-11	CARBON	1K 5% 1/4W
R058	1-216-033-00	METAL GLAZE	220 5% 1/10W
R064	1-247-815-91	CARBON	220 5% 1/4W
R065	1-247-815-91	CARBON	220 5% 1/4W
R066	1-247-815-91	CARBON	220 5% 1/4W
R067	1-249-413-11	CARBON	470 5% 1/4W
R068	1-247-815-91	CARBON	220 5% 1/4W
R069	1-247-815-91	CARBON	220 5% 1/4W
R070	1-247-815-91	CARBON	220 5% 1/4W
R071	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R072	1-216-033-00	METAL GLAZE	220 5% 1/10W
R073	1-216-033-00	METAL GLAZE	220 5% 1/10W
R074	1-216-033-00	METAL GLAZE	220 5% 1/10W
R075	1-216-033-00	METAL GLAZE	220 5% 1/10W
R076	1-216-033-00	METAL GLAZE	220 5% 1/10W
R077	1-216-033-00	METAL GLAZE	220 5% 1/10W
R078	1-249-417-11	CARBON	1K 5% 1/4W
R079	1-216-033-00	METAL GLAZE	220 5% 1/10W
R080	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R081	1-216-025-91	METAL GLAZE	100 5% 1/10W
R082	1-216-025-91	METAL GLAZE	100 5% 1/10W
R083	1-249-429-11	CARBON	10K 5% 1/4W
R084	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R087	1-247-815-91	CARBON	220 5% 1/4W
R090	1-216-033-00	METAL GLAZE	220 5% 1/10W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R092	1-249-429-11	CARBON	10K 5% 1/4W
R097	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R099	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R131	1-216-035-00	METAL GLAZE	270 5% 1/10W
R132	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R133	1-216-039-00	METAL GLAZE	390 5% 1/10W
R135	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R136	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R137	1-216-033-00	METAL GLAZE	220 5% 1/10W
R353	1-208-786-11	METAL GLAZE	1.5K 0.50% 1/10W
R354	1-216-077-00	METAL GLAZE	15K 5% 1/10W
R355	1-216-033-00	METAL GLAZE	220 5% 1/10W
R356	1-216-033-00	METAL GLAZE	220 5% 1/10W





REF.NO.	PART NO.	DESCRIPTION	REMARK
R358	1-247-815-91	CARBON	220 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R359	1-247-815-91	CARBON	220 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R360	1-247-815-91	CARBON	220 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R361	1-216-025-91	METAL GLAZE	100 5% 1/10W
R362	1-216-025-91	METAL GLAZE	100 5% 1/10W
R363	1-216-025-91	METAL GLAZE	100 5% 1/10W
R364	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R365	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R366	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R367	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R368	1-249-441-11	CARBON	100K 5% 1/4W
R369	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R370	1-249-417-11	CARBON	1K 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R371	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R372	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R373	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R374	1-216-125-00	METAL GLAZE	1.5M 5% 1/10W
R375	1-216-025-91	METAL GLAZE	100 5% 1/10W
R376	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R379	1-216-033-00	METAL GLAZE	220 5% 1/10W
R380	1-247-815-91	CARBON	220 5% 1/4W
R381	1-247-815-91	CARBON	220 5% 1/4W
R382	1-216-033-00	METAL GLAZE	220 5% 1/10W
R383	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R384	1-216-109-00	METAL GLAZE	330K 5% 1/10W
R385	1-249-422-11	CARBON	2.7K 5% 1/4W
R386	1-216-049-91	METAL GLAZE	1K 5% 1/10W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R387	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R388	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R389	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W
R390	1-216-035-00	METAL GLAZE	270 5% 1/10W
R391	1-208-810-11	METAL GLAZE	15K 0.50% 1/10W
R392	1-216-025-91	METAL GLAZE	100 5% 1/10W
R393	1-216-043-91	METAL GLAZE	560 5% 1/10W
R394	1-216-059-00	METAL GLAZE	2.7K 5% 1/10W
R395	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R396	1-249-417-11	CARBON	1K 5% 1/4W
		(KV-29V36K/29V76T/34V36K/37V36T)	
R397	1-249-425-11	CARBON	4.7K 5% 1/4W
R461	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R462	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R463	1-249-435-11	CARBON	33K 5% 1/4W
R464	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R465	1-249-413-11	CARBON	470 5% 1/4W






















**Note:**

The components identified by  in this manual have been carefully factory-selected for each set in order to satisfy regulations regarding X-ray radiation. Should replacement be required, replace only with the value originally used.

**Note:**

Les composants identifiés par un trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifique.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R466	1-249-382-11	CARBON	1.2 5% 1/4W F (KV-34V36K)
R466	1-249-383-11	CARBON	1.5 5% 1/4W (KV-29V36K/29V76T)
R466	1-249-385-11	CARBON	2.2 % 1/4W (KV-27V22/29V22T)
R467	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R469	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-29V36K/34V36K/29V76T)
R469	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W (KV-37V36T)
R469	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W (KV-27V22/29V22T)
R470	1-216-077-00	METAL GLAZE	15K 5% 1/10W (KV-34V36K)
R471	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R472	1-216-067-00	METAL GLAZE	5.6K 5% 1/10W (KV-29V36K/34V36K/29V76T)
R472	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W (KV-37V36T)
R472	1-216-055-00	METAL GLAZE	1.8K 5% 1/10W (KV-27V22/29V22T)
R473	1-249-398-11	CARBON	27 5% 1/4W
R474	1-216-077-00	METAL GLAZE	15K 5% 1/10W (KV-34V36K)
R475	1-249-430-11	CARBON	12K 5% 1/4W
R476	1-249-430-11	CARBON	12K 5% 1/4W
R477	1-249-398-11	CARBON	27 5% 1/4W
R478	1-249-418-11	CARBON	1.2K 5% 1/4W F
R479	1-249-418-11	CARBON	1.2K 5% 1/4W F
R480	1-249-385-11	CARBON	2.2 5% 1/4W F
R481	1-249-385-11	CARBON	2.2 5% 1/4W F
R482	1-249-421-11	CARBON	2.2K 5% 1/4W (KV-27V22/29V22T/37V36T)
R483	1-249-421-11	CARBON	2.2K 5% 1/4W (KV-27V22/29V22T/37V36T)
R501	1-216-037-00	METAL GLAZE	330 5% 1/10W
R502	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R503	1-249-426-11	CARBON	5.6K 5% 1/4W F
R504 	1-215-915-11	METAL OXIDE	470 5% 3W F (KV-34V36K/37V36T)
R504 	1-215-916-00	METAL OXIDE	680 5% 3W F (EXCEPT KV-34V36K/37V36T)
R505	1-249-431-11	CARBON	15K 5% 1/4W
R506	1-215-861-00	METAL OXIDE	47 5% 1W F
R507	1-249-401-11	CARBON	47 5% 1/4W
R508	1-249-427-11	CARBON	6.8K 5% 1/4W
R509	1-247-750-11	CARBON	680 5% 1/2W F
R510 	1-215-880-11	METAL OXIDE	33 5% 1W F
R511 	1-215-885-00	METAL OXIDE	68 5% 2W F (KV-34V36K)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R511 	1-215-886-11	METAL OXIDE	100 5% 2W F (KV-37V36T)
R511 	1-215-449-11	METAL OXIDE	58 5% 2W F (KV-27V22/29V22T/29V76T/29V36K)
R512 	1-215-886-11	METAL OXIDE	100 5% 2W F (KV-34V36K/37V36T)
R512 	1-215-450-00	METAL OXIDE	82 5% 2W F (KV-27V22/29V22T/29V76T/29V36K)
R513	1-216-347-11	METAL OXIDE	0.68 5% 1W F (KV-27V22/29V22T/29V76T/29V36K)
R515	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R516	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R517	1-249-415-11	CARBON	680 5% 1/4W
R518	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R519	1-249-411-11	CARBON	330 5% 1/4W
R521 	1-215-915-11	METAL OXIDE	470 5% 3W F (KV-34V36K/37V36T)
R521 	1-215-916-00	METAL OXIDE	470 5% 3W F (KV-27V22/29V22T/29V76T/29V36K)
R523	1-216-073-00	METAL GLAZE	10K 5% 1/10W (EXCEPT KV-37V36T)
R523	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W (KV-37V36T)
R524	1-249-428-11	CARBON	10K 5% 1/4W
R525	1-216-071-00	METAL GLAZE	8.2K 5% 1/10W
R528	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R529	1-208-814-11	METAL GLAZE	22K 0.50% 1/10W (EXCEPT KV-37V36T)
R529	1-208-812-11	METAL GLAZE	18K 0.50% 1/10W (KV-37V36T)
 R530 		METAL GLAZE	1/10W (KV-34V36K/37V36T)
 R530 		METAL GLAZE	1/10W (KV-27V22/29V36K/29V22T/29V76T)
 R531 		METAL GLAZE	1/10W (29V36K/27V22/29V22T/29V76T)
 R531 		METAL GLAZE	1/10W (KV-34V36K)
 R531 		METAL GLAZE	1/10W (KV-37V36T)
R532	1-208-760-11	METAL GLAZE	120 0.50% 1/10W
R533 	1-215-902-11	METAL OXIDE	47K 5% 1W F (EXCEPT KV-37V36T)
R533 	1-215-376-00	METAL OXIDE	33K 5% 1W F (KV-37V36T)
R535	1-216-101-00	METAL GLAZE	150K 5% 1/10W
R536 	1-260-288-11	CARBON	0.47 5% 1/2W (EXCEPT KV-37V36T)
R536 	1-216-397-11	METAL OXIDE	0.47 5% 3W (KV-37V36T)
R537 	1-260-288-11	CARBON	0.47 5% 1/2W (EXCEPT KV-37V36T)

**Note:** The components identified by shading and mark **Δ** are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque **Δ** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**A**

REF.NO.	PART NO.	DESCRIPTION	REMARK
R537 <b>Δ</b>	1-216-470-00	METAL OXIDE	18 5% 3W (KV-37V36T)
R538	1-247-887-00	CARBON	220K 5% 1/4W
R541	1-249-377-11	CARBON	0.47 5% 1/4W F (KV-37V36T)
R542	1-249-397-11	CARBON	22 5% 1/4W F (KV-37V36T)
R543	1-249-377-11	CARBON	0.47 5% 1/4W F
R546	1-215-451-00	METAL	18K 1% 1/4W (KV-37V36T)
R546	1-215-453-00	METAL	22K 1% 1/4W (KV-34V36K)
R546	1-215-456-00	METAL	30K 1% 1/4W (KV-27V22/29V22T/29V76T/29V36K)
R547	1-215-457-00	METAL	33K 1% 1/4W
R548	1-215-872-11	METAL OXIDE	3.3K 5% 1W F (KV-37V36T)
R549	1-215-437-00	METAL	4.7K 1% 1/4W
R550 <b>Δ</b>	1-249-377-11	CARBON	0.47 5% 1/4W F
R551	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
R552	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R553 <b>Δ</b>	1-249-377-11	CARBON	0.47 5% 1/4W F
R554	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R561	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R563 <b>Δ</b>	1-216-351-00	METAL OXIDE	1.5 5% 1W F
R564	1-249-392-11	CARBON	8.2 5% 1/4W (KV-27V22/29V22T/29V76T/29V36K)
R564	1-249-393-11	CARBON	10 5% 1/4W (KV-34V36K/37V36T)
R565 <b>Δ</b>	1-215-900-11	METAL OXIDE	470 5% 2W F
R566	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R567 <b>Δ</b>	1-249-385-11	CARBON	2.2 5% 1/4W F
R568	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R569	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R570	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R571	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R572	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R573	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R574 <b>Δ</b>	1-216-365-00	METAL OXIDE	0.47 5% 2W F
R575	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R576	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R577	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R578	1-208-784-11	METAL GLAZE	1.2K 0.50% 1/10W
R579	1-208-842-11	METAL GLAZE	330K 0.50% 1/10W
R580	1-249-441-11	CARBON	100K 5% 1/4W
R1001	1-247-807-31	CARBON	100 5% 1/4W
R1002	1-247-807-31	CARBON	100 5% 1/4W
R1005	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1006	1-216-033-00	METAL GLAZE	220 5% 1/10W (KV-37V36T)

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1101	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1102	1-215-900-11	METAL OXIDE	22K 5% 2W F
R1103	1-216-051-00	METAL GLAZE	1.2K 5% 1/10W
R1104	1-216-083-00	METAL GLAZE	27K 5% 1/10W
R1105	1-216-689-11	METAL GLAZE	39K 5% 1/10W
R1106	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1107	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1108	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1109	1-216-019-00	METAL GLAZE	56 5% 1/10W
R1110	1-216-019-00	METAL GLAZE	56 5% 1/10W
R1111	1-216-019-00	METAL GLAZE	56 5% 1/10W
R1115	1-216-045-00	METAL GLAZE	680 5% 1/10W
R1117	1-249-425-11	CARBON	4.7K 5% 1/4W
R1118	1-249-425-11	CARBON	4.7K 5% 1/4W
R1120	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1121	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1122	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R1123	1-216-039-00	METAL GLAZE	390 5% 1/10W
R1125	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1126	1-216-035-00	METAL GLAZE	270 5% 1/10W
R1127	1-216-115-00	METAL GLAZE	560K 5% 1/10W
R1128	1-216-039-00	METAL GLAZE	390 5% 1/10W
R1130	1-216-057-00	METAL GLAZE	2.2K 5% 1/10W
R1255	1-216-295-91	CONDUCTOR, CHIP	(2012)
R1258	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1259	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R1260	1-216-061-00	METAL GLAZE	3.3K 5% 1/10W
R1294	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1295	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1351	1-247-815-91	CARBON	220 5% 1/4W
R1352	1-247-815-91	CARBON	220 5% 1/4W
R1353	1-247-815-91	CARBON	220 5% 1/4W
R1354	1-216-033-00	METAL GLAZE	220 5% 1/10W
R1355	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1356	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1357	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1358	1-247-807-31	CARBON	100 5% 1/4W
R1359	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1360	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R1361	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1362	1-216-295-91	CONDUCTOR, CHIP	(2012)
R1407	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1408	1-249-429-11	CARBON	10K 5% 1/4W
R1409	1-249-429-11	CARBON	10K 5% 1/4W
R1411	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1412	1-216-093-00	METAL GLAZE	68K 5% 1/10W
R1413	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1414	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1415	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1418	1-216-093-00	METAL GLAZE	68K 5% 1/10W



**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1419	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1420	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1421	1-216-025-91	METAL GLAZE	100 5% 1/10W
R1424	1-247-807-31	CARBON	100 5% 1/4W
R1425	1-247-807-31	CARBON	100 5% 1/4W

#### SWITCH

S501 1-572-707-11 SWITCH, LEVER

#### TRANSFORMER

T501 1-437-210-11 TRANSFORMER, HORIZONTAL DRIVE  
 T502  $\Delta$  1-429-408-11 TRANSFORMER, FERRITE (PMT) (KV-37V36T)  
 T502  $\Delta$  1-424-545-11 TRANSFORMER, FERRITE (PMT) (EXCEPT KV-37V36T)  
 T503  $\Delta$  1-439-520-11 FBT ASSY, NX-2809 (KV-37V36T)  
 T503  $\Delta$  8-598-989-00 FBT ASSY, NX-2809 (EXCEPT KV-37V36T)  
 T504 1-413-059-00 TRANSFORMER, FERRITE (DFT) (KV-37V36T)

#### TUNER

TU102  $\Delta$  8-598-340-00 TUNER, FSS BTF-WA404 (KV-27V22)  
 TU102  $\Delta$  8-598-426-00 TUNER, FSS BTF-WL401 (KV-29V36K/34V36K)  
 TU102  $\Delta$  8-598-435-00 TUNER, FSS BTF-WG404 (KV-29V22T/29V76T/37V36T)

#### CRYSTAL

X001 1-578-774-11 VIBRATOR, CRYSTAL  
 X353 1-567-505-11 OSCILLATOR, CRYSTAL  
 X354 1-577-611-11 OSCILLATOR, CERAMIC



- \* A-1316-306-A G BOARD, COMPLETE (KV-29V36K/34V36K)
- \* A-1316-352-A G BOARD, COMPLETE (KV-29V22T/29V76T)
- \* A-1316-261-A G BOARD, COMPLETE (KV-27V22)
- \* A-1316-353-A G BOARD, COMPLETE (KV-37V36T)

4-382-854-11 SCREW (M3X10), P, SW (+)

#### CAPACITOR

C601 1-130-711-00 FILM .22MF 20% 250V (KV-37V36T)  
 C602 1-126-963-11 ELECT 4.7MF 20% 50V (KV-29V36K/34V36K)  
 C603  $\Delta$  1-113-903-11 CERAMIC 0.001MF 20% 250V (KV-29V22T/29V76T/29V36K/34V36K/37V36T)  
 C603  $\Delta$  1-113-915-11 CERAMIC 0.001MF 20% 250V (KV-27V22)  
 C604  $\Delta$  1-136-348-21 FILM 0.22MF 20% 125V (KV-27V22/29V22T/29V76T/37V36T)  
 C604  $\Delta$  1-136-348-21 FILM 0.22MF 20% 300V (KV-29V36K/34V36K)  
 C605  $\Delta$  1-136-311-11 FILM 0.47MF 20% 125V (EXCEPT KV-27V22)

REF.NO.	PART NO.	DESCRIPTION	REMARK
C605 $\Delta$	1-136-348-21	FILM	0.22MF 20% 125V (KV-27V22)
C606 $\Delta$	1-117-804-11	ELECT	500MF 20% 250V
C607 $\Delta$	1-117-804-11	ELECT	500MF 20% 250V
C608	1-164-625-11	CERAMIC	680PF 10% 500V (KV-27V22/29V22T/29V76T/37V36T)
C608	1-164-645-11	CERAMIC	1000PF 10% 500V (KV-29V36K/34V36K)
C609	1-136-173-00	FILM	0.47MF 5% 50V
C610	1-136-173-00	FILM	0.47MF 5% 50V
C611	1-136-169-00	FILM	0.22MF 5% 50V
C612	1-136-169-00	FILM	0.22MF 5% 50V
C613	1-164-645-11	CERAMIC	1000PF 10% 500V
C614	1-164-645-11	CERAMIC	1000PF 10% 500V
C615	1-136-759-11	FILM	0.039MF 5% 630V
C617 $\Delta$	1-113-903-11	CERAMIC	0.001MF 20% 250V (EXCEPT KV-27V22)
C617 $\Delta$	1-113-915-11	CERAMIC	0.001MF 20% 250V (KV-27V22)
C641	1-126-943-11	ELECT	2200MF 20% 25V
C642	1-126-767-11	ELECT	1000MF 20% 16V
C643	1-107-641-11	ELECT	220MF 20% 160V
C646	1-126-933-11	ELECT	100MF 20% 16V
C647	1-128-551-11	ELECT	22MF 20% 25V
C648	1-126-933-11	ELECT	100MF 20% 16V
C651	1-137-366-11	FILM	0.0022MF 5% 50V
C652	1-106-351-00	MYLAR	0.0022MF 200V
C653	1-107-636-11	ELECT	10MF 20% 160V
C654	1-164-625-11	CERAMIC	680PF 10% 500V
C655	1-164-625-11	CERAMIC	680PF 10% 500V
C656	1-164-625-11	CERAMIC	680PF 10% 500V
C657	1-164-625-11	CERAMIC	680PF 10% 500V
C661	1-126-963-11	ELECT	4.7MF 20% 50V (EXCEPT KV-29V36K/34V36K)
C690	1-164-645-11	CERAMIC	1000PF 10% 500V
C691	1-164-645-11	CERAMIC	1000PF 10% 500V

#### CONNECTOR

CN601 \* 1-508-765-00 PIN, CONNECTOR (5MM PITCH), 3P (EXCEPT KV-37V36T)  
 CN601 \* 1-573-963-11 PIN, CONNECTOR, 3P (KV-37V36T)  
 CN602 \* 1-580-844-11 PIN, CONNECTOR (POWER)  
 CN603 \* 1-573-963-11 PIN, CONNECTOR, 3P (KV-37V36T)  
 CN641 \* 1-564-515-11 PLUG, CONNECTOR 12P

#### DIODE

D601 8-719-911-19 DIODE 1SS119-25  
 D602 8-719-510-53 DIODE D4SB60L  
 D603 8-719-911-19 DIODE 1SS119-25  
 D604 8-719-911-19 DIODE 1SS119-25  
 D605 8-719-911-19 DIODE 1SS119-25

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
D606	8-719-911-19	DIODE 1SS119-25	
D607	8-719-911-19	DIODE 1SS119-25	
D608	8-719-911-19	DIODE 1SS119-25	
D609	8-719-911-19	DIODE 1SS119-25	
D610	8-719-911-19	DIODE 1SS119-25	

D615	8-719-028-45	DIODE D2L20U	
D641	8-719-052-40	DIODE RBA-1004B	
D643	8-719-028-45	DIODE D2L20U	
D644	8-719-028-45	DIODE D2L20U	
D645	8-719-028-45	DIODE D2L20U	

D646	8-719-510-12	DIODE D10SC4M	
D648	8-719-057-52	DIODE EZ0150AV1	
D649	8-719-510-02	DIODE D1NS4	
D650	8-719-510-02	DIODE D1NS4	

#### FUSE

F601 $\Delta$	1-576-193-11	FUSE 6.3A/125V (KV-27V22/29V22T/37V36T)	
F601 $\Delta$	1-532-506-51	FUSE 6.3A/250V (KV-29V36K/34V36K)	
	1-533-223-11	HOLDER, FUSE (for F601)	

#### FERRITE BEAD

FB601	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB641	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB642	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB643	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

FB644	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB645	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB646	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB647	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	
FB648	1-410-397-21	FERRITE BEAD INDUCTOR 1.1UH	

#### IC

IC641	8-749-920-58	IC SI-3090CA	
IC642	8-759-701-56	IC NJM78M05FA	
IC643	8-749-012-13	IC DM-58	

#### COIL

L642	1-412-529-11	INDUCTOR	22UH
L643	1-412-525-31	INDUCTOR	10UH

#### TRANSISTOR

Q601 $\Delta$	8-729-019-49	TRANSISTOR 2SC4834MNP (KV-27V22/29V22T/29V76T/37V36T)	
Q601 $\Delta$	8-729-019-50	TRANSISTOR 2SC4834NP (KV-29V36K/34V36K)	
Q602 $\Delta$	8-729-019-49	TRANSISTOR 2SC4834MNP (KV-27V22/29V22T/29V76T/37V36T)	
Q602 $\Delta$	8-729-019-50	TRANSISTOR 2SC4834NP (KV-29V36K/34V36K)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q644	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q645	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q646	8-729-119-78	TRANSISTOR 2SC2785-HFE (EXCEPT 29V36K/34V36K)	

#### RESISTOR

R603 $\Delta$	1-247-289-00	CARBON	8.2M 5% 1W (KV-29V36K/34V36K)
R603 $\Delta$	1-219-776-11	CARBON	2.2M 10% 1/2W (EXCEPT KV-29V36K/34V36K)
R605	1-247-893-11	CARBON	390K 5% 1/4W
R606	1-247-893-11	CARBON	390K 5% 1/4W
R607 $\Delta$	1-292-933-61	FUSIBLE	0.1 10% 1/2W F

R608 $\Delta$	1-216-369-00	METAL OXIDE	1 5% 2W F (KV-29V36K/34V36K)
R608 $\Delta$	1-216-372-11	METAL OXIDE	1.8 5% 2W F (EXCEPT KV-29V36K/34V36K)
R609	1-247-791-91	CARBON	22 5% 1/4W
R610	1-247-791-91	CARBON	22 5% 1/4W
R611 $\Delta$	1-216-369-00	METAL OXIDE	1 5% 2W F (KV-29V36K/34V36K)

R611 $\Delta$	1-216-372-11	METAL OXIDE	1.8 5% 2W F (EXCEPT KV-29V36K/34V36K)
R612	1-247-887-00	CARBON	220K 5% 1/4W
R613	1-247-887-00	CARBON	220K 5% 1/4W
R614	1-247-887-00	CARBON	220K 5% 1/4W
R615	1-247-887-00	CARBON	220K 5% 1/4W

R616	1-247-791-91	CARBON	22 5% 1/4W
R617	1-247-791-91	CARBON	22 5% 1/4W
R622 $\Delta$	1-212-958-00	FUSIBLE	10 5% 1/2W F
R623 $\Delta$	1-243-032-11	WIREWOUND	3.9 5% 20W (KV-29V36K/34V36K)
R623 $\Delta$	1-205-943-11	WIREWOUND	1 5% 20W (EXCEPT KV-29V36K/34V36K)
R641	1-247-843-11	CARBON	3.3K 5% 1/4W

R642	1-247-843-11	CARBON	3.3K 5% 1/4W
R643	1-249-387-11	CARBON	3.3 5% 1/4W F
R644 $\Delta$	1-215-882-00	METAL OXIDE	22 5% 2W F
R645 $\Delta$	1-260-304-51	CARBON	10 5% 1/2W (KV-29V36K/34V36K)
R647	1-249-417-11	CARBON	1K 5% 1/4W

R648	1-247-887-00	CARBON	220K 5% 1/4W
R649	1-249-425-11	CARBON	4.7K 5% 1/4W F
R652	1-249-421-11	CARBON	2.2K 5% 1/4W
R659	1-249-429-11	CARBON	10K 5% 1/4W (KV-29V36K/34V36K)
R661	1-249-413-11	CARBON	470 5% 1/4W F

R662	1-249-429-11	CARBON	10K 5% 1/4W
R663 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R664 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R665 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F





Note: The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R666 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R667 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R668 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R670 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R671 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R672 $\Delta$	1-249-377-11	CARBON	0.47 5% 1/4W F
R678	1-247-863-91	CARBON	22K 5% 1/4W (EXCEPT KV-29V36K/34V36K)
R679	1-247-863-91	CARBON	22K 5% 1/4W (EXCEPT KV-29V36K/34V36K)
R680	1-249-429-11	CARBON	10K 5% 1/4W (EXCEPT KV-29V36K/34V36K)
R681	1-249-407-11	CARBON	150 5% 1/4W (EXCEPT KV-29V36K/34V36K)

#### RELAY

R6001  $\Delta$  1-755-010-11 RELAY

#### TRANSFORMER

T601  $\Delta$  1-426-717-11 TRANSFORMER, LINE FILTER (LFT)  
 T602  $\Delta$  1-426-717-11 TRANSFORMER, LINE FILTER (LFT) (EXCEPT KV-27V22)  
 T603  $\Delta$  1-424-226-11 TRANSFORMER, LINE FILTER (KV-27V22)  
 T604  $\Delta$  1-427-804-11 TRANSFORMER, CONVERTER (PRT)  
 T605  $\Delta$  1-429-416-11 TRANSFORMER, CONVERTER (PRT)

#### THERMISTOR

TH001  $\Delta$  1-409-827-11 THERMISTOR, POSITIVE (KV-29V36K/34V36K)  
 TH002  $\Delta$  1-409-830-11 THERMISTOR, POSITIVE (EXCEPT KV-29V36K/34V36K)

#### VARISTOR

VDR601 1-810-974-21 VARISTOR

REF.NO. PART NO. DESCRIPTION REMARK



- \* A-1331-549-A C BOARD, MOUNTED (EXCEPT KV-37V36T)
- \* A-1331-522-A C BOARD, MOUNTED (KV-37V36T)

4-382-854-11 SCREW (M3X10), P, SW (+)

#### CAPACITOR

C1765	1-102-116-00	CERAMIC	680PF	10%	50V
C1766	1-102-117-00	CERAMIC	820PF	10%	50V
C1767	1-102-116-00	CERAMIC	680PF	10%	50V
C1775	1-102-116-00	CERAMIC	680PF	10%	50V
C1776	1-102-117-00	CERAMIC	820PF	10%	50V
C1777	1-102-116-00	CERAMIC	680PF	10%	50V
C1785	1-102-116-00	CERAMIC	680PF	10%	50V
C1786	1-102-117-00	CERAMIC	820PF	10%	50V
C1787	1-102-116-00	CERAMIC	680PF	10%	50V
C1790	1-102-129-00	CERAMIC	0.01MF	10%	50V
C1791	1-126-933-11	ELECT	100MF	20%	16V
C1793	1-107-651-11	ELECT	4.7MF	20%	250V
C1795	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1797	1-106-375-12	MYLAR	0.022MF		200V
C1798	1-106-375-12	MYLAR	0.022MF		200V
C1799	1-162-114-00	CERAMIC	0.0047MF		2KV

#### CONNECTOR

CN1761\* 1-564-509-11 PLUG, CONNECTOR 6P  
 CN1762\* 1-508-784-00 PIN, CONNECTOR (5MM PITCH) 1P (KV-37V36T)  
 CN1764\* 1-564-507-11 PLUG, CONNECTOR 4P  
 CN1765 1-695-915-11 TAB (CONTACT) (EXCEPT KV-37V36T)  
 CN1766 1-695-915-11 TAB (CONTACT)

#### DIODE

D1761	8-719-991-33	DIODE 1SS133T-77
D1762	8-719-991-33	DIODE 1SS133T-77
D1763	8-719-991-33	DIODE 1SS133T-77
D1771	8-719-991-33	DIODE 1SS133T-77
D1772	8-719-991-33	DIODE 1SS133T-77
D1773	8-719-991-33	DIODE 1SS133T-77
D1781	8-719-991-33	DIODE 1SS133T-77
D1782	8-719-991-33	DIODE 1SS133T-77
D1783	8-719-991-33	DIODE 1SS133T-77
D1790	8-719-991-33	DIODE 1SS133T-77
D1792	8-719-983-14	DIODE MTZJ-T-77-3.9

#### JACK

J1761  $\Delta$  1-201-428-11 SOCKET, CRT (EXCEPT KV-37V36T)  
 J1762  $\Delta$  1-201-428-11 SOCKET, CRT (KV-37V36T)

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



**REF.NO. PART NO. DESCRIPTION REMARK**

**COIL**

L1790 1-410-667-31 INDUCTOR 22UH

**TRANSISTOR**

Q1761 8-729-119-78 TRANSISTOR 2SC2785-HFE  
Q1762 8-729-326-11 TRANSISTOR 2SC2611  
Q1763 8-729-200-17 TRANSISTOR 2SA1091-O  
Q1771 8-729-119-78 TRANSISTOR 2SC2785-HFE  
Q1772 8-729-326-11 TRANSISTOR 2SC2611

Q1773 8-729-200-17 TRANSISTOR 2SA1091-O  
Q1781 8-729-119-78 TRANSISTOR 2SC2785-HFE  
Q1782 8-729-326-11 TRANSISTOR 2SC2611  
Q1783 8-729-200-17 TRANSISTOR 2SA1091-O  
Q1790 8-729-119-76 TRANSISTOR 2SA1175-HFE

**RESISTOR**

R1760 1-260-105-11 CARBON 3.3K 5% 1/2W  
R1761 1-247-807-31 CARBON 100 5% 1/4W  
R1763 1-249-409-11 CARBON 220 5% 1/4W F  
R1764  $\Delta$  1-216-486-00 METAL OXIDE 8.2K 5% 3W F  
R1765 1-249-411-11 CARBON 330 5% 1/4W

R1766 1-249-393-11 CARBON 10 5% 1/4W  
R1767 1-249-429-11 CARBON 10K 5% 1/4W  
R1768 1-249-411-11 CARBON 330 5% 1/4W  
R1770 1-260-105-11 CARBON 3.3K 5% 1/2W  
R1771 1-247-807-31 CARBON 100 5% 1/4W

R1773 1-249-409-11 CARBON 220 5% 1/4W F  
R1774  $\Delta$  1-216-486-00 METAL OXIDE 8.2K 5% 3W F  
R1775 1-249-407-11 CARBON 150 5% 1/4W  
R1776 1-249-393-11 CARBON 10 5% 1/4W  
R1777 1-249-429-11 CARBON 10K 5% 1/4W

R1780 1-260-105-11 CARBON 3.3K 5% 1/2W  
R1781 1-247-807-31 CARBON 100 5% 1/4W  
R1783 1-249-409-11 CARBON 220 5% 1/4W F  
R1784  $\Delta$  1-216-486-00 METAL OXIDE 8.2K 5% 3W F  
R1785 1-249-407-11 CARBON 150 5% 1/4W

R1786 1-249-393-11 CARBON 10 5% 1/4W  
R1787 1-249-429-11 CARBON 10K 5% 1/4W  
R1789 1-249-437-11 CARBON 47K 5% 1/4W  
R1792 1-247-815-91 CARBON 220 5% 1/4W  
R1793 1-247-863-91 CARBON 22K 5% 1/4W

R1794 1-249-417-11 CARBON 1K 5% 1/4W  
R1795 1-260-087-11 CARBON 100 5% 1/2W  
R1796  $\Delta$  1-216-385-00 METAL OXIDE .47 5% 2W F  
(KV-37V36T)  
R1796  $\Delta$  1-216-374-00 METAL OXIDE 2.7 5% 2W F  
(EXCEPT KV-37V36T)

R1797 1-260-123-11 CARBON 100K 5% 1/2W

**REF.NO. PART NO. DESCRIPTION REMARK**

R1798 1-260-133-11 CARBON 680K 5% 1/2W  
(KV-37V36T)  
R1799 1-260-123-11 CARBON 100K 5% 1/2W  
(KV-37V36T)  
RV1791 1-230-641-11 RES, ADJ, METAL GLAZE 2.2M (KV-37V36T)

**WA**

\* A-1372-211-A WA BOARD, MOUNTED (KV-37V36T)

4-382-854-11 SCREW (M3X10), P, SW (+)

**CAPACITOR**

C941 1-126-935-11 ELECT 470MF 20% 16V  
C944 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
C945 1-163-001-11 CERAMIC CHIP 220PF 10% 50V  
C946 1-126-933-11 ELECT 100MF 20% 16V  
C949 1-161-830-00 CERAMIC 0.0047MF 500V

C950 1-126-933-11 ELECT 100MF 20% 16V  
C951 1-107-638-11 ELECT 33MF 20% 160V  
C952 1-104-999-11 MYLAR 0.1MF 10% 200V  
C953 1-106-383-00 MYLAR 0.047MF 10% 200V  
C954 1-137-364-11 FILM 0.001MF 5% 50V

C955 1-107-667-11 ELECT 2.2MF 20% 160V  
C956 1-137-364-11 FILM 0.001MF 5% 50V  
C957 1-106-383-00 MYLAR 0.047MF 10% 200V  
C958 1-126-933-11 ELECT 100MF 20% 16V  
C961 1-163-251-11 CERAMIC CHIP 100PF 5% 50V

C962 1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V  
C965 1-163-035-00 CERAMIC CHIP 0.047MF 50V  
C966 1-163-009-11 CERAMIC CHIP 0.001MF 10% 50V  
C967 1-129-718-00 FILM 0.022MF 5% 630V  
C968 1-137-579-11 FILM 0.068MF 5% 100V

C969 1-163-035-00 CERAMIC CHIP 0.047MF 50V  
C981 1-126-941-11 ELECT 470MF 20% 25V  
C983 1-137-366-11 FILM 0.0022MF 5% 50V

**CONNECTOR**

CN941 1-564-511-11 PLUG, CONNECTOR 8P  
CN961 \* 1-770-723-11 CONNECTOR, BOARD TO BOARD 8P  
CN981 \* 1-564-506-11 PLUG, CONNECTOR 3P

**DIODE**

D941 8-719-991-33 DIODE 1SS133T-77  
D946 8-719-110-88 DIODE RD39ESB2  
D947 8-719-110-88 DIODE RD39ESB2  
D961 8-719-109-89 DIODE RD5.6ESB2  
D962 8-719-991-33 DIODE 1SS133T-77WB  
D964 8-719-302-43 DIODE EL1Z



The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Les composants identifiés par un trame et  
une marque  $\Delta$  sont critiques pour la  
sécurité. Ne les remplacer que par une  
pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
<b>IC</b>			
IC961	8-759-700-07	IC NJM2903M	
IC981	8-759-603-37	IC M5216P	
<b>COIL</b>			
L942	1-215-863-11	METAL OXIDE 100	5% 1W F
L962	1-406-989-21	COIL, CHOKE 10MMH	
L963	1-406-675-11	COIL, CHOKE 4.7MMH	
<b>TRANSISTOR</b>			
Q943	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q944	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q945	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q946	8-729-017-05	TRANSISTOR 2SA1837	
Q947	8-729-017-06	TRANSISTOR 2SC4793	
Q962	8-729-931-45	TRANSISTOR IRF614	
Q963	8-729-216-22	TRANSISTOR 2SA1162-G	
Q965	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q966	8-729-216-22	TRANSISTOR 2SA1162-G	
Q981	8-729-422-27	TRANSISTOR 2SD601A-Q	
<b>RESISTOR</b>			
R943	1-216-025-91	METAL GLAZE 100	5% 1/10W
R948	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R949	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R950	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R951	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R952	1-216-037-00	METAL GLAZE 330	5% 1/10W
R953	1-216-021-00	METAL GLAZE 68	5% 1/10W
R954	1-216-033-00	METAL GLAZE 220	5% 1/10W
R955	1-216-047-91	METAL GLAZE 820	5% 1/10W
R956	1-216-295-91	CONDUCTOR, CHIP (2012)	
R957	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R958	1-216-295-91	CONDUCTOR, CHIP (2012)	
R959	1-216-021-00	METAL GLAZE 68	5% 1/10W
R960	1-216-689-11	METAL GLAZE 39K	5% 1/10W
R961	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R962	1-216-057-00	METAL GLAZE 2.2K	5% 1/10W
R963	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R964	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R965	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R966	1-216-097-91	METAL GLAZE 100K	5% 1/10W
R967	1-216-065-00	METAL GLAZE 4.7K	5% 1/10W
R968	1-216-083-00	METAL GLAZE 27K	5% 1/10W
R969	1-216-295-91	CONDUCTOR, CHIP (2012)	
R970	1-216-033-00	METAL GLAZE 220	5% 1/10W
R971	1-247-899-11	CARBON 680K	5% 1/4W
R972	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R973	1-216-121-91	METAL GLAZE 1M	5% 1/10W
R974	1-216-073-00	METAL GLAZE 10K	5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R975 $\Delta$	1-216-446-00	METAL OXIDE 18	5% 2W F
R976 $\Delta$	1-216-423-11	METAL OXIDE 27	5% 1W F
R979	1-216-017-91	METAL GLAZE 47	5% 1/10W
R981	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R982	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R983	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R984	1-216-081-00	METAL GLAZE 22K	5% 1/10W
R987	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R988	1-216-295-91	CONDUCTOR, CHIP (2012)	
R989	1-216-304-11	METAL GLAZE 3.3	5% 1/10W
R992	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R1941	1-260-311-11	CARBON 39	5% 1/2W
R1942	1-249-384-11	CARBON 1.8	5% 1/4W F
R1943	1-249-414-11	CARBON 560	5% 1/4W F
R1944	1-249-432-11	CARBON 18K	5% 1/4W
R1945	1-216-476-11	METAL OXIDE 180	5% 3W F
R1946	1-249-417-11	CARBON 1K	5% 1/4W F
R1947	1-249-432-11	CARBON 18K	5% 1/4W
R1948	1-249-414-11	CARBON 560	5% 1/4W
R1949	1-249-384-11	CARBON 1.8	5% 1/4W F
R1950	1-249-400-11	CARBON 39	5% 1/4W F

**WB**

\* A-1372-225-A WB BOARD, MOUNTED

(KV-29V76T/29V36K/34V36K)

4-382-854-11 SCREW (M3X10), P, SW (+)

#### CAPACITOR

C2941	1-126-935-11	ELECT 470MF	20% 16V
C2944	1-164-232-11	CERAMIC CHIP 0.01MF	10% 50V
C2946	1-126-933-11	ELECT 100MF	20% 16V
C2949	1-161-830-00	CERAMIC 0.0047MF	500V
C2950	1-126-933-11	ELECT 100MF	20% 16V
C2951	1-107-638-11	ELECT 33MF	20% 160V
C2952	1-104-999-11	MYLAR 0.1MF	10% 200V
C2953	1-106-383-00	MYLAR 0.047MF	10% 200V
C2954	1-137-364-11	FILM 0.001MF	5% 50V
C2955	1-107-667-11	ELECT 2.2MF	20% 160V
C2956	1-137-364-11	FILM 0.001MF	5% 50V
C2957	1-106-383-00	MYLAR 0.047MF	10% 200V
C2958	1-126-933-11	ELECT 100MF	20% 16V
C2975	1-163-001-11	CERAMIC CHIP 220PF	10% 50V

#### CONNECTOR

CN2941\* 1-564-508-11 PLUG, CONNECTOR 5P

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**WB HS HV**

REF.NO.	PART NO.	DESCRIPTION	REMARK
<b>DIODE</b>			
D2941	8-719-991-33	DIODE 1SS133T-77	
D2946	8-719-110-88	DIODE RD39ESB2	
D2947	8-719-110-88	DIODE RD39ESB2	
<b>COIL</b>			
L2942	1-215-863-11	METAL OXIDE 100	5% 1W F
<b>TRANSISTOR</b>			
Q2943	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q2944	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q2945	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q2946	8-729-017-05	TRANSISTOR 2SA1837	
Q2947	8-729-017-06	TRANSISTOR 2SC4793	
Q2965	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q2966	8-729-216-22	TRANSISTOR 2SA1162-G	
<b>RESISTOR</b>			
R2943	1-216-025-91	METAL GLAZE 100	5% 1/10W
R2948	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2949	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2950	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2951	1-216-049-91	METAL GLAZE 1K	5% 1/10W
R2952	1-216-037-00	METAL GLAZE 330	5% 1/10W
R2953	1-216-021-00	METAL GLAZE 68	5% 1/10W
R2954	1-216-033-00	METAL GLAZE 220	5% 1/10W
R2955	1-216-047-91	METAL GLAZE 820	5% 1/10W
R2956	1-216-295-91	CONDUCTOR, CHIP (2012)	
R2957	1-216-073-00	METAL GLAZE 10K	5% 1/10W
R2958	1-216-295-91	CONDUCTOR, CHIP (2012)	
R2959	1-216-021-00	METAL GLAZE 68	5% 1/10W
R2979	1-216-017-91	METAL GLAZE 47	5% 1/10W
R4941	1-260-311-11	CARBON 39	5% 1/2W
R4942	1-249-384-11	CARBON 1.8	5% 1/4W F
R4943	1-249-414-11	CARBON 560	5% 1/4W F
R4944	1-249-432-11	CARBON 18K	5% 1/4W
R4945	1-216-476-11	METAL OXIDE 180	5% 3W F
R4946	1-249-417-11	CARBON 1K	5% 1/4W F
R4947	1-249-432-11	CARBON 18K	5% 1/4W
R4948	1-249-414-11	CARBON 560	5% 1/4W
R4949	1-249-384-11	CARBON 1.8	5% 1/4W F
R4950	1-249-400-11	CARBON 39	5% 1/4W F

REF.NO. PART NO. DESCRIPTION REMARK

**HS**

\* A-1372-326-A HS BOARD, MOUNTED (KV-34V36K/37V36T)

**CAPACITOR**

C2168	1-104-665-11	ELECT	100MF	20%	25V
C2169	1-126-959-11	ELECT	0.47MF	20%	50V

**CONNECTOR**

CN2101	1-564-524-11	PLUG, CONNECTOR 9P
CN2102	1-564-523-11	PLUG, CONNECTOR 8P

**HV**

\* A-1372-337-A HV BOARD, MOUNTED (KV-27V22/29V22T)  
 \* A-1372-346-A HV BOARD, MOUNTED (KV-29V36K/29V76T)  
 \* A-1372-330-A HV BOARD, MOUNTED (KV-34V36K/37V36T)

**CAPACITOR**

C2068	1-104-665-11	ELECT	100MF	20%	25V
C2070	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C2071	1-126-959-11	ELECT	0.47MF	20%	50V
C2231	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C2232	1-136-161-00	FILM	0.047MF	5%	50V
C2233	1-136-161-00	FILM	0.047MF	5%	50V
C2234	1-126-960-11	ELECT	1MF	20%	50V
C2235	1-126-960-11	ELECT	1MF	20%	50V
C2236	1-126-933-11	ELECT	100MF	20%	16V

**CONNECTOR**

CN2001	1-564-524-11	PLUG, CONNECTOR 9P	(KV-27V22/29V22T/29V36K/29V76T)
CN2002*	1-564-518-11	PLUG, CONNECTOR 3P	(KV-29V36K/29V76T/37V36T/34V36K)
CN2231	1-564-523-11	PLUG, CONNECTOR 8P	(KV-27V22/29V22T/29V36K/29V76T)

**DIODE**

D2006	1-810-039-11	LED UNIT
D2231	8-719-110-17	DIODE RD10ESB2 (KV-34V36K/37V36T)
D2232	8-719-110-17	DIODE RD10ESB2 (KV-34V36K/37V36T)
D2233	8-719-110-17	DIODE RD10ESB2 (KV-34V36K/37V36T)
D2236	8-719-110-17	DIODE RD10ESB2

**IC**

IC2003	8-742-014-11	HYB IC SBX1981-51
IC2004	8-749-012-12	IC IS474



Note:

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

NO. PART NO. DESCRIPTION REMARK

**JACK**

J2231 1-691-110-11 JACK, PIN 3P  
J2232 1-694-063-11 TERMINAL, S (KV-34V36K/37V36T)

**TRANSISTOR**

Q2008 8-729-216-22 TRANSISTOR 2SA1162-G  
Q2009 8-729-422-27 TRANSISTOR 2SD601A-Q

**RESISTOR**

R2009	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2010	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2011	1-216-025-91	METAL GLAZE	100	5%	1/10W
R2012	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R2013	1-216-105-91	METAL GLAZE	220K	5%	1/10W
R2014	1-216-033-00	METAL GLAZE	220	5%	1/10W
R2015	1-247-807-31	CARBON	100	5%	1/4W
R2016	1-216-133-00	METAL GLAZE	3.3M	5%	1/10W
R2059	1-216-047-91	METAL GLAZE	820	5%	1/10W
R2060	1-216-049-91	METAL GLAZE	1K	5%	1/10W
					(KV-27V22/29V22T)
					(KV-27V22/29V22T)
R2061	1-216-055-00	METAL GLAZE	1.8K	5%	1/10W
					(KV-27V22/29V22T)
R2062	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
					(KV-27V22/29V22T)
R2063	1-216-073-00	METAL GLAZE	10K	5%	1/10W
					(KV-27V22/29V22T)
R2231	1-216-022-00	METAL GLAZE	75	5%	1/10W
					(KV-34V36K/37V36T)
R2232	1-216-022-00	METAL GLAZE	75	5%	1/10W
					(KV-34V36K/37V36T)
R2233	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
					(KV-34V36K/37V36T)
R2235	1-216-022-00	METAL GLAZE	75	5%	1/10W
R2236	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R2237	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R2238	1-216-113-00	METAL GLAZE	470K	5%	1/10W
R2239	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W

**SWITCH**

S2001 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
S2002 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
S2003 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
S2004 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
S2005 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
  
S2006 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)  
S2007 1-692-431-21 SWITCH, TACTILE (KV-27V22/29V22T)

REF.NO. PART NO. DESCRIPTION REMARK



\* A-1380-518-A K BOARD, COMPLETE  
(KV-29V36K/29V76T/34V36K)

4-382-854-11 SCREW (M3X10), P, SW (+)

**CAPACITOR**

C1462	1-126-961-11	ELECT	2.2MF	20%	50V
C1463	1-126-961-11	ELECT	2.2MF	20%	50V
C1464	1-126-969-11	ELECT	220MF	20%	50V
C1465	1-104-664-11	ELECT	47MF	20%	25V
C1466	1-126-969-11	ELECT	220MF	20%	50V
C1467	1-126-961-11	ELECT	2.2MF	20%	50V
C1469	1-136-173-00	FILM	0.47MF	5%	50V
C1470	1-136-169-00	FILM	0.22MF	5%	50V
C1471	1-136-169-00	FILM	0.22MF	5%	50V
C1472	1-128-548-11	ELECT	4700MF	20%	25V
C1473	1-126-943-11	ELECT	2200MF	20%	25V
C1474	1-126-943-11	ELECT	2200MF	20%	25V
C1475	1-128-548-11	ELECT	4700MF	20%	25V
C1476	1-124-564-11	ELECT	4700MF	20%	25V

**CONNECTOR**

CN1461\* 1-564-510-11 PLUG, CONNECTOR 7P  
CN1462\* 1-564-507-11 PLUG, CONNECTOR 4P

**DIODE**

D1461 8-719-991-33 DIODE 1SS133T-77

**IC**

IC1461 8-759-980-43 IC TDA2009A

**IC LINK**

~~IC1461 1-692-384-11 LINK IC 2A00V~~

**TRANSISTOR**

Q1461 8-729-422-27 TRANSISTOR 2SD601A-Q  
Q1462 8-729-216-22 TRANSISTOR 2SA1162-G

**RESISTOR**

R1461	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R1462	1-216-089-91	METAL GLAZE	47K	5%	1/10W
R1463	1-249-435-11	CARBON	33K	5%	1/4W
R1464	1-208-775-11	METAL GLAZE	510	0.50%	1/10W
R1465	1-216-011-00	METAL GLAZE	27	5%	1/10W

**Note:**

The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



REF.NO.	PART NO.	DESCRIPTION	REMARK
R1467	1-216-011-00	METAL GLAZE	27 5% 1/10W
R1468	1-208-775-11	METAL GLAZE	510 0.50% 1/10W
R1469	1-216-011-00	METAL GLAZE	27 5% 1/10W
R1471	1-216-011-00	METAL GLAZE	27 5% 1/10W
R1472	1-249-418-11	CARBON	1.2K 5% 1/4W F
R1473	1-249-413-11	CARBON	470 5% 1/4W
R1474	1-249-441-11	CARBON	100K 5% 1/4W
R1475	1-249-430-11	CARBON	12K 5% 1/4W
R1476	1-249-430-11	CARBON	12K 5% 1/4W
R1477	1-249-385-11	CARBON	2.2 5% 1/4W F
R1478	1-249-418-11	CARBON	1.2K 5% 1/4W F
R1479	1-249-385-11	CARBON	2.2 5% 1/4W F
R1480	1-249-421-11	CARBON	2.2K 5% 1/4W
R1481	1-249-421-11	CARBON	2.2K 5% 1/4W
R1482	1-249-421-11	CARBON	2.2K 5% 1/4W
R1483	1-249-421-11	CARBON	2.2K 5% 1/4W

**SC**

\* A-1390-585-A SC BOARD, MOUNTED  
(KV-29V36K/29V76T/34V36K/37V36T)

**CONNECTOR**

CN104	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P
CN105	1-573-978-21	CONNECTOR, BOARD TO BOARD 11P

**UV**

\* A-1394-846-A UV BOARD, COMPLETE (KV-34V36K)  
 \* A-1394-847-A UV BOARD, COMPLETE (KV-37V36T)  
 \* A-1394-856-A UV BOARD, COMPLETE (KV-27V22/29V22T)  
 \* A-1394-859-A UV BOARD, COMPLETE (KV-29V36K/29V76T)

**CAPACITOR**

C151	1-126-960-11	ELECT	1MF	20%	50V
C152	1-126-960-11	ELECT	1MF	20%	50V
C153	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C154	1-164-489-11	CERAMIC CHIP	0.22MF	10%	16V
C156	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C157	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C158	1-163-034-00	CERAMIC CHIP	.0330MF		50V
C159	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C160	1-126-959-11	ELECT	0.47MF	20%	50V
C161	1-126-960-11	ELECT	1MF	20%	50V
C162	1-126-960-11	ELECT	1MF	20%	50V
C163	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C164	1-165-319-11	CERAMIC CHIP	0.1MF		50V

REF.NO.	PART NO.	DESCRIPTION	REMARK
C165	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C166	1-165-319-11	CERAMIC CHIP	0.1MF 50V
C167	1-126-933-11	ELECT	100MF 20% 16V
C168	1-126-964-11	ELECT	10MF 20% 50V
C170	1-163-123-00	CERAMIC CHIP	180PF 5% 50V
C231	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C232	1-136-161-00	FILM	0.047MF 5% 50V
C233	1-136-161-00	FILM	0.047MF 5% 50V
C234	1-126-960-11	ELECT	1MF 20% 50V
C235	1-126-960-11	ELECT	1MF 20% 50V
C236	1-136-161-00	FILM	0.047MF 5% 50V (EXCEPT KV-27V22/29V22T)
C237	1-126-960-11	ELECT	1MF 20% 50V (EXCEPT KV-27V22/29V22T)
C238	1-126-960-11	ELECT	1MF 20% 50V (EXCEPT KV-27V22/29V22T)
C241	1-126-941-11	ELECT	470MF 20% 25V
C242	1-126-959-11	ELECT	0.47MF 20% 50V
C244	1-126-959-11	ELECT	0.47MF 20% 50V
C245	1-126-941-11	ELECT	470MF 20% 25V (EXCEPT KV-29V22T/27V22/37V36T)
C246	1-126-959-11	ELECT	0.47MF 20% 50V (EXCEPT KV-29V22T/27V22/37V36T)
C247	1-126-959-11	ELECT	0.47MF 20% 50V (EXCEPT KV-29V22T/27V22/37V36T)
C261	1-136-161-00	FILM	0.047MF 5% 50V (EXCEPT KV-27V22/29V22T)
C262	1-104-664-11	ELECT	47MF 20% 25V
C263	1-136-161-00	FILM	0.047MF 5% 50V
C264	1-126-941-11	ELECT	470MF 20% 25V (EXCEPT KV-27V22/29V22T)
C264	1-126-933-11	ELECT	100MF 20% 16V (KV-27V22/29V22T)
C265	1-104-664-11	ELECT	47MF 20% 25V (EXCEPT KV-27V22/29V22T)
C265	1-107-701-11	ELECT	47MF 20% 16V (KV-27V22/29V22T)
C266	1-126-960-11	ELECT	1MF 20% 50V (EXCEPT KV-27V22/29V22T)
C267	1-126-960-11	ELECT	1MF 20% 50V (EXCEPT KV-27V22/29V22T)
C270	1-126-960-11	ELECT	1MF 20% 50V
C271	1-126-960-11	ELECT	1MF 20% 50V
C273	1-136-165-00	FILM	0.1MF 5% 50V
C274	1-163-031-11	CERAMIC CHIP	0.01MF 50V
C275	1-104-664-11	ELECT	47MF 20% 25V
C276	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C301	1-126-935-11	ELECT	470MF 20% 16V (EXCEPT KV-27V22/29V22T)
C301	1-126-933-11	ELECT	100MF 20% 16V (KV-27V22/29V22T)
C302	1-126-935-11	ELECT	470MF 20% 16V (KV-34V36K/37V36T)



**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
<b><u>FILTER BLOCK</u></b>			
CM301	1-473-548-11	FILTER BLOCK, COMB (KV-27V22/29V22T)	
CM301	1-467-554-21	FILTER BLOCK, COMB (KV-29V36K/29V76T)	
CM302	1-467-656-11	FILTER BLOCK, COMB (KV-34V36K/37V36T)	
<b><u>CONNECTOR</u></b>			
CN261	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P (EXCEPT KV-27V22/29V22T)	
CN262	1-573-301-21	CONNECTOR, BOARD TO BOARD 20P	
CN263 *	1-564-506-11	PLUG, CONNECTOR 3P (EXCEPT KV-27V22/29V22T)	
CN264	1-573-979-21	CONNECTOR, BOARD TO BOARD 11P	
<b><u>DIODE</u></b>			
D231	8-719-110-17	DIODE RD10ESB2	
D232	8-719-110-17	DIODE RD10ESB2	
D233	8-719-110-17	DIODE RD10ESB2	
D234	8-719-110-17	DIODE RD10ESB2	
D235	8-719-110-17	DIODE RD10ESB2	
D236	8-719-110-17	DIODE RD10ESB2	
D237	8-719-981-99	DIODE MTZJ-3.3	
D238	8-719-981-99	DIODE MTZJ-3.3	
D239	8-719-981-99	DIODE MTZJ-3.3 (KV-29V76T/29V36K/34V36K)	
D240	8-719-110-17	DIODE RD10ESB2 (EXCEPT KV-27V22/29V22T)	
D241	8-719-110-17	DIODE RD10ESB2 (EXCEPT KV-27V22/29V22T)	
D242	8-719-110-17	DIODE RD10ESB2 (EXCEPT KV-27V22/29V22T)	
D243	8-719-110-17	DIODE RD10ESB2	
D244	8-719-110-17	DIODE RD10ESB2	
D245	8-719-981-99	DIODE MTZJ-3.3 (KV-29V76T/29V36K/34V36K)	
D246	8-719-981-99	DIODE MTZJ-3.3 KV-29V76T/29V36K/34V36K)	
D264	8-719-110-17	DIODE RD10ESB2	
D265	8-719-110-17	DIODE RD10ESB2	
D902	8-719-921-54	DIODE MTZJ-6.2B (EXCEPT KV-27V22/29V22T)	
<b><u>IC</u></b>			
IC151	8-759-700-44	IC NJM2902M	
IC152	8-759-700-44	IC NJM2902M	
IC153	8-759-100-96	IC UPC4558G2	
IC154	8-759-068-07	IC CD4052BCN	
IC261	8-759-366-77	IC MM1311AD (KV-27V22/29V22T)	
IC261	8-759-366-78	IC MM1313AD (EXCEPT KV-27V22/29V22T)	
<b><u>JACK</u></b>			
J231	1-750-515-11	TERMINAL BLOCK, S 3P	
J232	1-750-517-11	JACK BLOCK, PIN 3P (EXCEPT KV-27V22/29V22T)	
J233	1-750-516-11	JACK BLOCK, PIN 2P (EXCEPT KV-27V22/29V22T)	
J233	1-774-747-11	JACK BLOCK, PIN 2P (KV-27V22/29V22T)	
J234	1-750-517-11	JACK BLOCK, PIN 3P (EXCEPT KV-27V22/29V22T)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
J234	1-774-746-11	JACK BLOCK, PIN 3P (KV-27V22/29V22T)	
J235	1-750-517-11	JACK BLOCK, PIN 3P (KV-29V36K/29V76T/34V36K)	
J902	1-764-143-11	JACK 3P (EXCEPT KV-27V22/29V22T)	
J903	1-764-143-11	JACK 3P (EXCEPT KV-27V22/29V22T)	
J904	1-764-143-11	JACK 3P (EXCEPT KV-27V22/29V22T)	
<b><u>CHIP CONDUCTOR</u></b>			
JR151	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR152	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR201	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR204	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR205	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR206	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR208	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR209	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR210	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR211	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR212	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR213	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR214	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR215	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR216	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR217	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR218	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR219	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR220	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR221	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR222	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR223	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR226	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR228	1-216-295-91	CONDUCTOR, CHIP (2012)	
JR233	1-216-295-91	CONDUCTOR CHIP (2012) (KV-27V22/29V22T)	
<b><u>JUMPER WIRE</u></b>			
JW226	1-249-389-11	CARBON 4.7 5% 1/4W	
JW280	1-249-85-11	CARBON 2.2 5% 1/4W	
<b><u>TRANSISTOR</u></b>			
Q231	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q232	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29V76T/29V36K/34V36K)	
Q233	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q234	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q235	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29V76T/29V36K/34V36K)	
Q236	8-729-422-27	TRANSISTOR 2SD601A-Q (KV-29V76T/29V36K/34V36K)	
Q237	8-729-216-22	TRANSISTOR 2SA1162-G	
Q238	8-729-216-22	TRANSISTOR 2SA1162-G	

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**UV**

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q239	8-729-216-22	TRANSISTOR 2SA1162-G	
Q240	8-729-216-22	TRANSISTOR 2SA1162-G	
		(KV-29V76T/29V36K/34V36K)	
Q241	8-729-216-22	TRANSISTOR 2SA1162-G	
		(KV-29V76T/29V36K/34V36K)	
Q242	8-729-216-22	TRANSISTOR 2SA1162-G	
		(KV-29V76T/29V36K/34V36K)	
Q243	8-729-216-22	TRANSISTOR 2SA1162-G	
Q261	8-729-422-27	TRANSISTOR 2SD601A-Q	
		(EXCEPT KV-27V22/29V22T)	
Q262	8-729-422-27	TRANSISTOR 2SD601A-Q	
Q263	8-729-216-22	TRANSISTOR 2SA1162-G	
Q265	8-729-216-22	TRANSISTOR 2SA1162-G	

#### RESISTOR

R151	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R152	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R153	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R154	1-216-085-00	METAL GLAZE	33K	5%	1/10W
R155	1-216-075-00	METAL GLAZE	12K	5%	1/10W
R156	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R157	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R158	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R159	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R160	1-216-079-00	METAL GLAZE	18K	5%	1/10W
R161	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R162	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R163	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R164	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R165	1-216-073-00	METAL GLAZE	10K	5%	1/10W
R166	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R167	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R168	1-216-077-00	METAL GLAZE	15K	5%	1/10W
R169	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R170	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R171	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R172	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W
R173	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R174	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R175	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R176	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R177	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R178	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R179	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W
R180	1-216-099-00	METAL GLAZE	120K	5%	1/10W
R181	1-216-049-91	METAL GLAZE	1K	5%	1/10W
R183	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R184	1-216-081-00	METAL GLAZE	22K	5%	1/10W
R185	1-216-081-00	METAL GLAZE	22K	5%	1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R186	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R187	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R188	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R189	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R190	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R191	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R192	1-216-063-91	METAL GLAZE	3.9K 5% 1/10W
R193	1-216-075-00	METAL GLAZE	12K 5% 1/10W
R194	1-216-099-00	METAL GLAZE	120K 5% 1/10W
R195	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R196	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R197	1-216-097-91	METAL GLAZE	100K 5% 1/10W
R198	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R199	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R200	1-216-081-00	METAL GLAZE	22K 5% 1/10W
R201	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R202	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R203	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R204	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R206	1-216-049-91	METAL GLAZE	1K 5% 1/10W
		(KV-29V76T/29V36K/34V36K)	
R207	1-216-295-91	CONDUCTOR, CHIP	(2012)
			(KV-29V76T/29V36K/34V36K)
R208	1-216-049-91	METAL GLAZE	1K 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R209	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R210	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R212	1-249-440-11	CARBON	82K 5% 1/4W
R213	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R214	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R215	1-249-413-11	CARBON	470 5% 1/4W
R216	1-216-025-91	METAL GLAZE	100 5% 1/10W
R217	1-216-025-91	METAL GLAZE	100 5% 1/10W
R218	1-216-025-91	METAL GLAZE	100 5% 1/10W
R219	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R220	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R221	1-249-413-11	CARBON	470 5% 1/4W
			(KV-29V76T/29V36K/34V36K)
R222	1-216-025-91	METAL GLAZE	100 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R223	1-216-025-91	METAL GLAZE	100 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R224	1-216-025-91	METAL GLAZE	100 5% 1/10W
			(KV-29V76T/29V36K/34V36K)
R225	1-247-815-91	CARBON	220 5% 1/4W
R226	1-247-815-91	CARBON	220 5% 1/4W





Note:

The components identified by shading  
and mark  $\Delta$  are critical for safety.  
Replace only with part number specified.

Note:

Les composants identifiés par un trame et  
une marque  $\Delta$  sont critiques pour la  
sécurité. Ne les remplacer que par une  
pièce portant le numéro spécifié.

REF.NO.	PART NO.	DESCRIPTION	REMARK
R227	1-249-440-11	CARBON	82K 5% 1/4W
R228	1-216-033-00	METAL GLAZE	220 5% 1/10W
R229	1-216-025-91	METAL GLAZE	100 5% 1/10W
R230	1-216-033-00	METAL GLAZE	220 5% 1/10W
R231	1-216-022-00	METAL GLAZE	75 5% 1/10W
R232	1-216-022-00	METAL GLAZE	75 5% 1/10W
R233	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R234	1-216-022-00	METAL GLAZE	75 5% 1/10W
R235	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R236	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R237	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R238	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R239	1-216-022-00	METAL GLAZE	75 5% 1/10W (EXCEPT KV-27V22/29V22T)
R240	1-216-113-00	METAL GLAZE	470K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R241	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R242	1-216-113-00	METAL GLAZE	470K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R243	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R244	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R245	1-249-417-11	CARBON	1K 5% 1/4W
R246	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R247	1-249-417-11	CARBON	1K 5% 1/4W
R248	1-216-021-00	METAL GLAZE	68 5% 1/10W
R249	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R250	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R251	1-216-113-00	METAL GLAZE	470K 5% 1/10W
R252	1-216-019-00	METAL GLAZE	56 5% 1/10W (KV-29V76T/29V36K/34V36K)
R253	1-216-113-00	METAL GLAZE	470K 5% 1/10W (KV-29V76T/29V36K/34V36K)
R254	1-216-113-00	METAL GLAZE	470K 5% 1/10W (KV-29V76T/29V36K/34V36K)
R255	1-216-113-00	METAL GLAZE	470K 5% 1/10W (KV-29V76T/29V36K/34V36K)
R256	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W
R258	1-216-069-00	METAL GLAZE	6.8K 5% 1/10W (KV-29V76T/29V36K/34V36K)
R259	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R260	1-247-807-31	CARBON	100 5% 1/4W
R264	1-247-815-91	CARBON	220 5% 1/4W
R265	1-247-815-91	CARBON	220 5% 1/4W
R266	1-216-043-91	METAL GLAZE	560 5% 1/10W (EXCEPT KV-27V22/29V22T)
R267	1-249-415-11	CARBON	680 5% 1/4W (EXCEPT KV-27V22/29V22T)
R268	1-216-025-91	METAL GLAZE	100 5% 1/10W
R269	1-216-025-91	METAL GLAZE	100 5% 1/10W
R270	1-216-041-00	METAL GLAZE	470 5% 1/10W

REF.NO.	PART NO.	DESCRIPTION	REMARK
R271	1-249-415-11	CARBON	680 5% 1/4W
R272	1-249-417-11	CARBON	1K 5% 1/4W
R274	1-249-413-11	CARBON	470 5% 1/4W
R275	1-249-425-11	CARBON	4.7K 5% 1/4W (EXCEPT KV-27V22/29V22T)
R276	1-249-425-11	CARBON	4.7K 5% 1/4W (EXCEPT KV-27V22/29V22T)
R277	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R278	1-249-413-11	CARBON	470 5% 1/4W (KV-29V36K/29V76T/34V36K)
R279	1-216-025-91	METAL GLAZE	100 5% 1/10W
R280	1-216-033-00	METAL GLAZE	220 5% 1/10W
R281	1-216-033-00	METAL GLAZE	220 5% 1/10W (EXCEPT KV-27V22/29V22T)
R282	1-216-025-91	METAL GLAZE	100 5% 1/10W
R283	1-216-025-91	METAL GLAZE	100 5% 1/10W
R284	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R285	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R286	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R288	1-247-815-91	CARBON	220 5% 1/4W
R289	1-247-815-91	CARBON	220 5% 1/4W
R290	1-247-815-91	CARBON	220 5% 1/4W
R291	1-216-025-91	METAL GLAZE	100 5% 1/10W (EXCEPT KV-27V22/29V22T)
R292	1-216-025-91	METAL GLAZE	100 5% 1/10W (KV-27V22/29V22T)
R293	1-216-025-91	METAL GLAZE	100 5% 1/10W (EXCEPT KV-27V22/29V22T)
R294	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R301	1-249-417-11	CARBON	1K 5% 1/4W
R304	1-249-417-11	CARBON	1K 5% 1/4W
R902	1-249-405-11	CARBON	100 5% 1/4W F (EXCEPT KV-27V22/29V22T)
R919	1-216-295-91	CONDUCTOR, CHIP	(2012) (EXCEPT KV-27V22/29V22T)
R920	1-249-405-11	CARBON	100 5% 1/4W F (EXCEPT KV-27V22/29V22T)
R921	1-249-405-11	CARBON	100 5% 1/4W F (EXCEPT KV-27V22/29V22T)
R922	1-216-049-91	METAL GLAZE	1K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R923	1-216-049-91	METAL GLAZE	1K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R924	1-216-049-91	METAL GLAZE	1K 5% 1/10W (EXCEPT KV-27V22/29V22T)
R925	1-215-433-00	METAL	3.3K 1% 1/4W (EXCEPT KV-27V22/29V22T)
R926	1-215-433-00	METAL	3.3K 1% 1/4W (EXCEPT KV-27V22/29V22T)
R1151	1-216-053-00	METAL GLAZE	1.5K 5% 1/10W
R1152	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1153	1-216-089-91	METAL GLAZE	47K 5% 1/10W

**Note:** The components identified by shading and mark  $\Delta$  are critical for safety. Replace only with part number specified.

**Note:** Les composants identifiés par un trame et une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

**UV**

REF.NO.	PART NO.	DESCRIPTION	REMARK
R1154	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1155	1-216-089-91	METAL GLAZE	47K 5% 1/10W
R1156	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1157	1-216-073-00	METAL GLAZE	10K 5% 1/10W
R1158	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1159	1-216-065-00	METAL GLAZE	4.7K 5% 1/10W
R1160	1-216-295-91	CONDUCTOR, CHIP (2012)	
R1161	1-216-295-91	CONDUCTOR, CHIP (2012)	
R1164	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1165	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1166	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1167	1-216-049-91	METAL GLAZE	1K 5% 1/10W
R1168	1-216-049-91	METAL GLAZE	1K 5% 1/10W
<b>MISCELLANEOUS</b>			
$\Delta$	1-411-474-11	COIL DEMAGNETIC (KV-34V36K)	
$\Delta$	1-411-881-11	COIL, DEMAGNETIC (KV-37V36T)	
$\Delta$	1-411-899-11	COIL DEMAGNETIC (KV-27V22/29V22T/29V76T)	
$\Delta$	1-406-726-81	COIL DEMAGNETIC (KV-29V36K)	
$\Delta$	1-452-509-41	NECK ASSY, CRT (NA-308) (KV-29V36K/29V76T)	
$\Delta$	1-452-579-21	NECK ASSY, CRT (NA-308) (KV-34V36K)	
	1-473-549-11	SWITCH BLOCK, CONTROL (KV-29V36K/29V76T/34V36K/37V36T)	
*	1-551-382-31	CABLE, P-P (KV-29V36K/29V76T/37V36T)	
*	1-557-056-31	CABLE, P-P (KV-29V36K/29V76T/34V36K/37V36T)	
*	1-556-945-21	CABLE, P-P (KV-34V36K)	
$\Delta$	1-775-468-21	CORD POWER (WITH CONNECTOR) (KV-29V36K/34V36K)	
$\Delta$	1-751-059-11	CORD POWER (WITH CONNECTOR) (KV-27V22/29V22T/29V76T/37V36T)	
	1-766-374-11	PLUG, F-PIN (KV-27V22/29V22T)	
$\Delta$	8-451-275-42	DEFLECTION YOKE (KV-27V22/29V22T/29V76T/29V36K)	
$\Delta$	8-451-482-21	DEFLECTION YOKE (KV-34V36K)	
$\Delta$	8-451-480-11	DEFLECTION YOKE (KV-37V36T)	
*	4-052-905-01	V5/6 BRACKET (KV-29V76T/29V36K/34V36K/37V36T)	
	8-598-414-00	SWITCH, ANTENNA AS-2F (KV-29V76T/29V36K/34V36K/37V36T)	
$\Delta$	8-733-745-05	CRT 34FXD2 (M80JYV51X) (KV-34V36K)	
$\Delta$	8-733-848-05	CRT 29FXD (SD-268/ECR) A68KZJ50X (KV-27V22/29V22T/29V76T/29V36K)	
$\Delta$	8-733-760-05	CRT (KV-37V36T)	
$\Delta$	1-453-207-11	TRANSFORMER ASSY, FLYBACK (NX-2609//X4C) (EXCEPT KV-37V36T)	
$\Delta$	1-453-126-11	TRANSFORMER ASSY, FLYBACK (NX-3000A3) (KV-37V36T)	

REF.NO.	PART NO.	DESCRIPTION	REMARK
<b>ACCESSORIES AND PACKING MATERIALS</b>			
	3-859-519-23	MANUAL, INSTRUCTION (KV-27V22)	
	3-860-705-61	MANUAL, INSTRUCTION (KV-29V36K/34V36K)	
*	4-041-259-01	BAG, PROTECTION (KV-34V36K)	
*	4-041-255-01	BAG, PROTECTION (KV-27V22/29V22T/29V76T)	
*	4-049-757-11	BAG, PROTECTION (KV-27V22/29V22T/29V76T/29V36K)	
*	4-053-658-01	BAG, PROTECTION (KV-37V36T)	
*	4-049-758-11	BAG, PROTECTION (KV-34V36K)	
*	4-054-067-01	CUSHION (UPPER) (ASSY) (KV-34V36K)	
*	4-053-277-01	CUSHION (UPPER) (ASSY) (KV-37V36T)	
*	4-054-059-01	CUSHION (UPPER) (ASSY) (KV-27V22/29V22T/29V76T/29V36K)	
*	4-054-070-01	CUSHION (LOWER) (ASSY) (KV-34V36K)	
*	4-053-278-01	CUSHION (LOWER) (ASSY) (KV-37V36T)	
*	4-054-062-01	CUSHION (LOWER) (ASSY) (KV-27V22/29V22T/29V76T/29V36K)	
*	4-054-065-01	INDIVIDUAL CARTON (KV-27V22)	
*	4-054-066-01	INDIVIDUAL CARTON (KV-29V22T/29V76T)	
*	4-054-073-01	INDIVIDUAL CARTON (KV-34V36K)	
*	4-054-276-01	INDIVIDUAL CARTON (KV-37V36T)	
*	4-054-407-01	INDIVIDUAL CARTON (KV-29V36K)	

#### REMOTE COMMANDER

1-473-748-31	REMOTE COMMANDER (RM-Y135A) (KV-27V22/29V22T)
1-473-750-41	REMOTE COMMANDER (RM-Y137A) (KV-29V76T/37V36T)
1-475-069-21	REMOTE COMMANDER (RM-Y149A) (KV-29V36K/34V36K)
4-978-977-01	LID, BATTERY COVER (for RM-Y135A/Y137A/Y149A)

